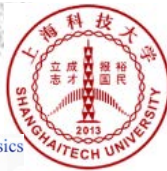
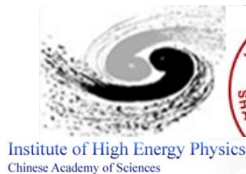


The 2025 International Workshop on the High Energy Circular Electron Positron Collider

November 5 – 10, 2025 - Guangzhou Dongfan Hotel

A forward looking strategical view on SRF technologies

Guangzhou, 7 November 2025



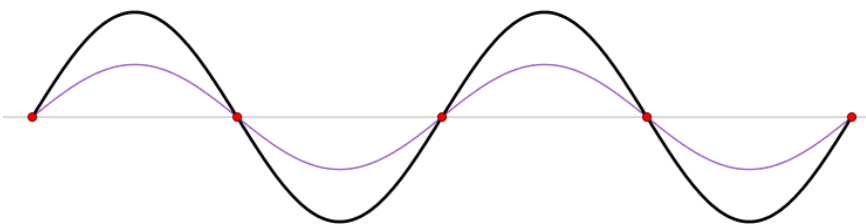
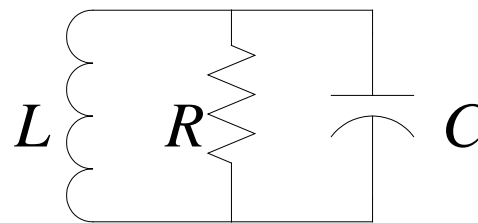
Carlo Pagani

carlo.pagani@mi.infn.it



Superconducting RF resonators (cavities)

An **RF cavity**, the accelerating element, is a container in which a non-conservative electric field is stored or travelling. When a bunched particle beam passes through it, the field has to be properly oriented.



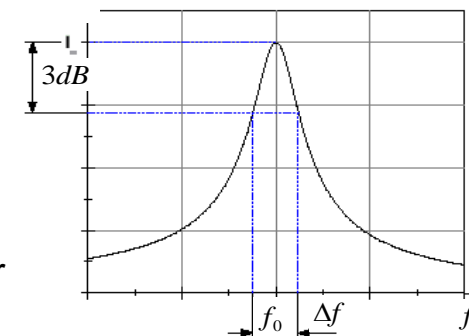
High Q for low losses \longrightarrow **Small R_s for high Q**

$$Q = \omega \frac{U}{P_{diss}}$$

U = stored energy
 P_{diss} = dissipated power

$$Q = \frac{G}{R_s}$$

R_s = surface resistance
 G = cavity geometrical factor



SC cavities still dissipate power, since not all electrons are in Cooper pairs. Dissipation is at cryogenic temperature

$$P_{diss} = \frac{R_s}{2} \int_S H^2 dS$$

Nb

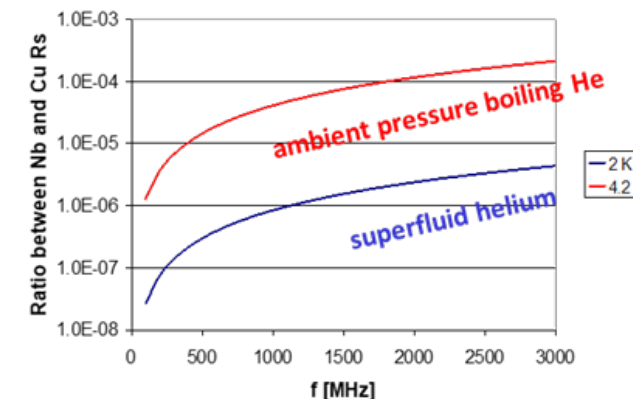
Cu

$$R_s[\text{n}\Omega] = 9 \times 10^4 \frac{f^2[\text{GHz}]}{T[\text{K}]} \exp\left(-\frac{a}{T[\text{K}]}\right)$$

$$R_s[\text{m}\Omega] = 7.8 f^{\frac{1}{2}}[\text{GHz}]$$

SC
SuperConducting

NC or RT
NormalConducting



1st SRF Workshop 1980

Karlsruhe, Germany
July 2-4 1980

22nd SRF2025 TOKYO

SRF2025 - 22nd International Conference on RF Superconductivity

22ND INTERNATIONAL CONFERENCE
ON RF SUPERCONDUCTIVITY
September 21-26, 2025

LIST OF PARTICIPANTS

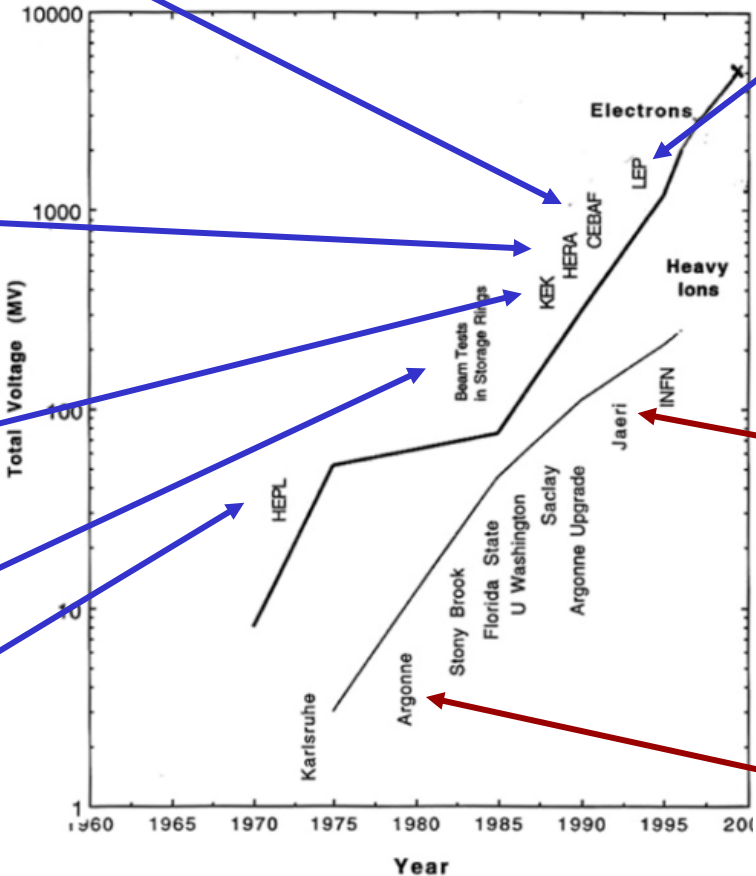
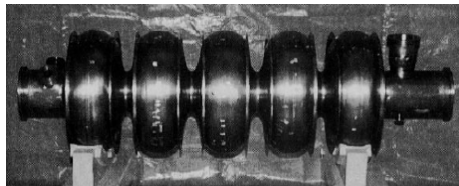
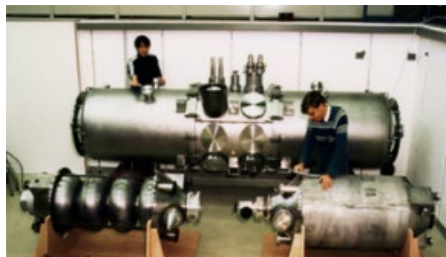
1.	G. Arnolds	GHS	Wuppertal
2.	B. Aune	CEN	Saclay
3.	W. Bauer	KfK	Karlsruhe
4.	F. Baumann	Uni	Karlsruhe
5.	M. Baye	IEF	Orsay
6.	R. Blaschke	GHS	Wuppertal
7.	A. Brandelik	KfK	Karlsruhe
8.	P. Breitfeld	KfK	Karlsruhe
9.	W. Buckel	Uni	Karlsruhe
10.	R. Calder	CERN ISR	
11.	G. Cavallari	CERN EF	
12.	J. Chelius	Kaweck	Lakewood
13.	E. Chiaveri	CERN EF	
14.	A. Citron	KfK	Karlsruhe
15.	M. Dwersteg	DESY	Hamburg
16.	D. Farkas	SLAC	Stanford
17.	O. Fischer	Uni	Genf
18.	J. Fouan	CEN	Saclay
19.	H. Gerke	DESY	Hamburg
20.	G. Geschonke	CERN	
21.	W. Giebeler	Interatom	Bergisch Gladbach
22.	H.D. Graef	GSI	Pfungstadt
23.	J. Griffin	Fermi-Lab.	Batavia
24.	Th. Grundey	GHS	Wuppertal
25.	E. Haebe	CERN EF	
26.	H. Hahn	BNL	Brookhaven
27.	J. Halbritter	KfK	Karlsruhe
28.	J. Hasse	Uni	Karlsruhe
29.	H. Heinrichs	CERN/Wuppertal	
30.	W. Herz	KfK	Karlsruhe
31.	B. Hillenbrand	FL Siemens	Erlangen
32.	N. Hilleret	CERN ISR	
33.	H. Hogg	SLAC	Stanford
34.	H. Hübner	KfK	Karlsruhe
35.	S. Isagawa	CERN	
36.	U. Klein	GHS	Wuppertal

37.	P. Kneisel	KfK	Karlsruhe
38.	Y. Kojima	KEK	Japan
39.	W. Krause	FL Siemens	Erlangen
40.	M. Kuntze	KfK	Karlsruhe
41.	R.M. Laszewski	Univ.	Illinois
42.	R. Lehm	KfK	Karlsruhe
43.	W. Lehmann	KfK	Karlsruhe
44.	H. Lengeler	CERN EF	
45.	G. Loew	SLAC	Stanford
46.	Cl. Lyneis	HEPL	Stanford
47.	A. Mathewson	CERN ISR	
48.	R. Meyer	GHS	Wuppertal
49.	G. Müller	GHS	Wuppertal
50.	R. Delesclefs	Uni	Genf
51.	V. Nguyen Tuong	IEF	Orsay
52.	Sh. Nogushi	Uni INS	Tokyo
53.	H. Padamsee	Univ.	Cornell
54.	C. Pagani	Univ.	Milano
55.	A. Palussek	Interatom	Bergisch Gladbach
56.	R. Parodi	INFN	Genoa
57.	C. Passow	KfK	Karlsruhe
58.	J. Peters	DESY	Hamburg
59.	M. Pham Tu	IEF	Orsay
60.	A. Philipp	KfK	Karlsruhe
61.	H. Piel	GHS	Wuppertal
62.	J. Sayag	IEF	Orsay
63.	F. Schürer	KfK	Karlsruhe
64.	A. Septier	IEK	Orsay
65.	R. Sundelin	Univ.	Cornell
66.	L. Szecsi	KfK	Karlsruhe
67.	M. Tigner	Univ.	Cornell
68.	J. Vetter	KfK	Karlsruhe
69.	R. Vincon	KfK	Karlsruhe
70.	L. Wartskj	IEF	Orsay
71.	W. Weingarten	GHS	Wuppertal



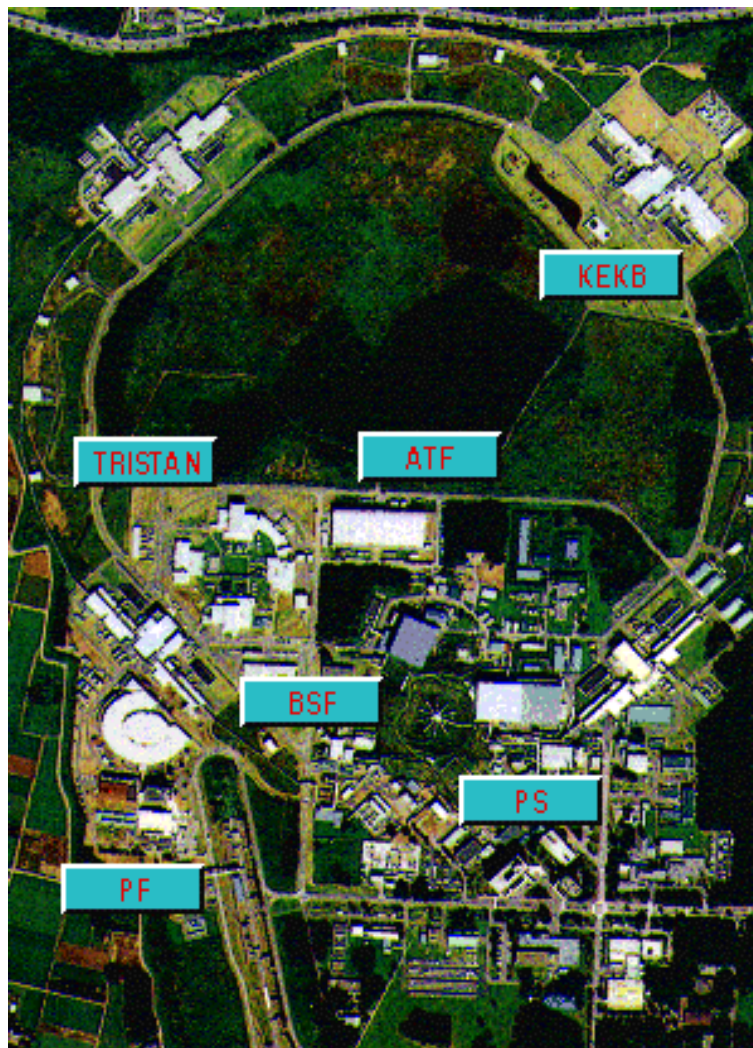
SRF Evolution in Particle Accelerators

SRF before TESLA

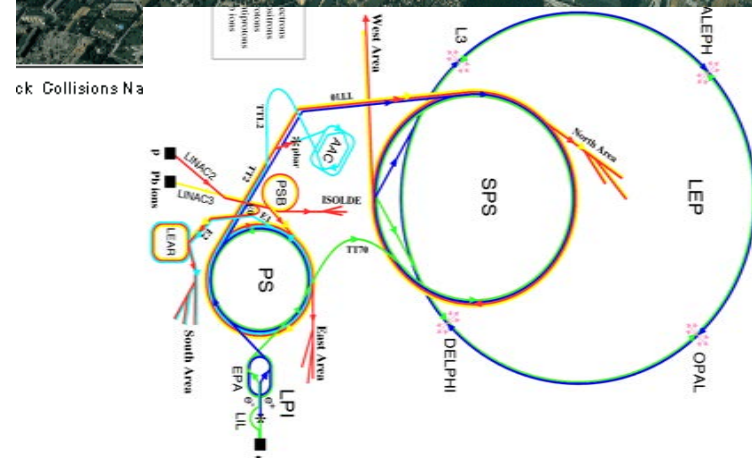


Since 1980s Large HEP Projects bet on SRF

TRISTAN at KEK



LEP2 at CERN



CEBAF at TJNAF



LEP-II: Production and Performances

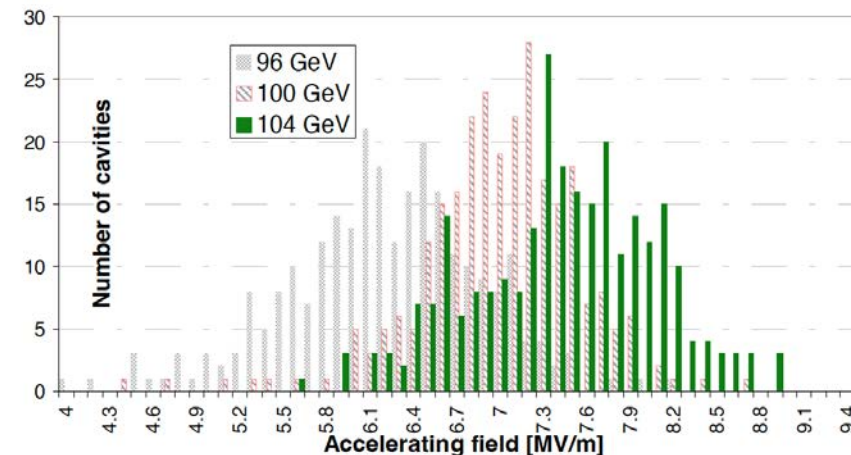
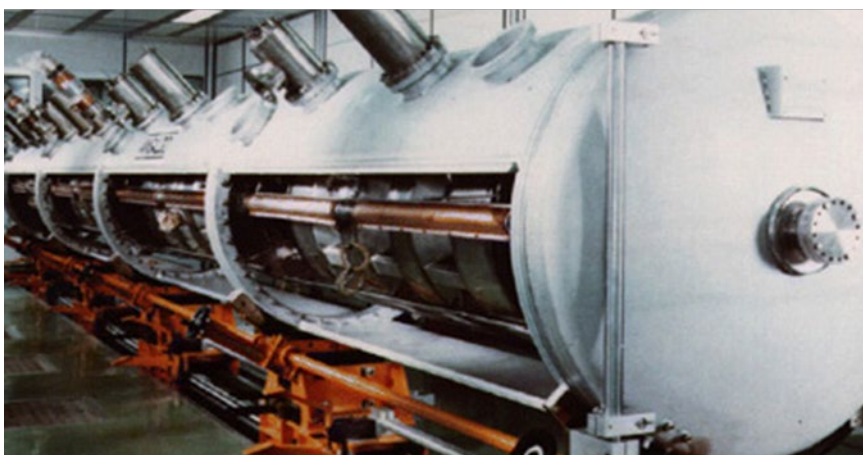
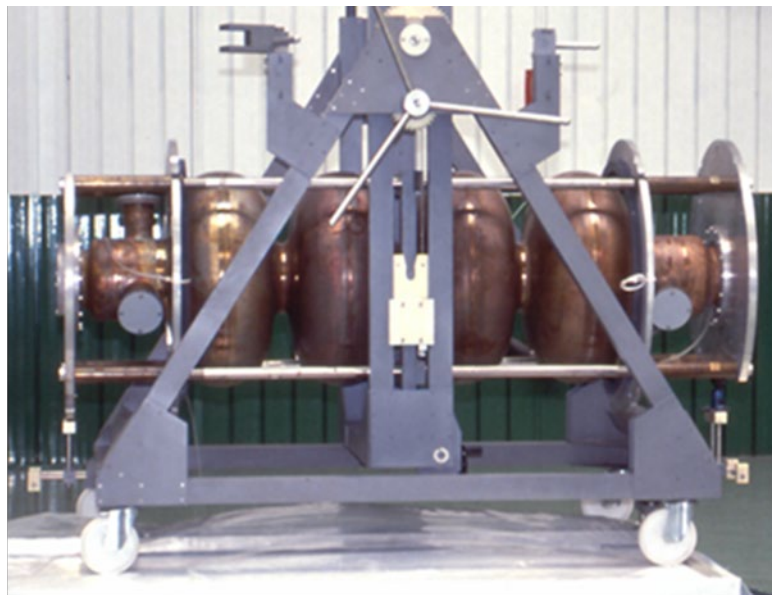
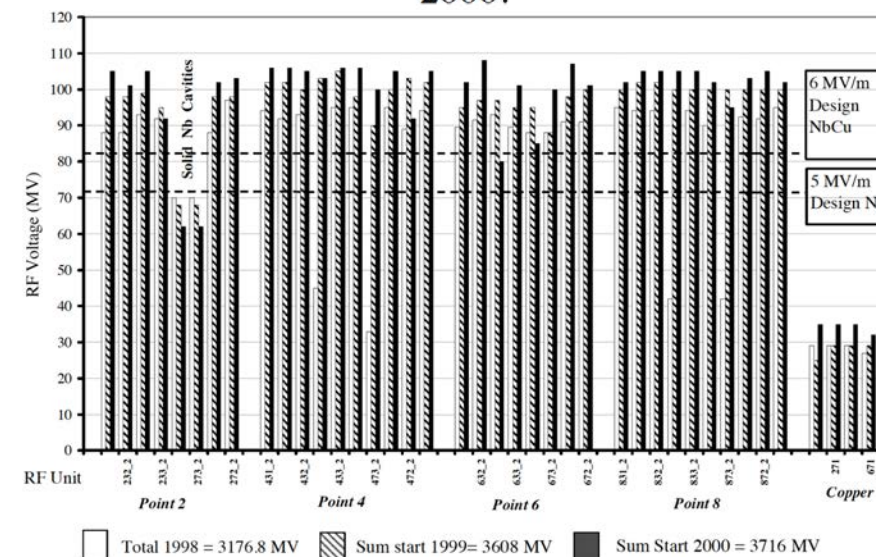
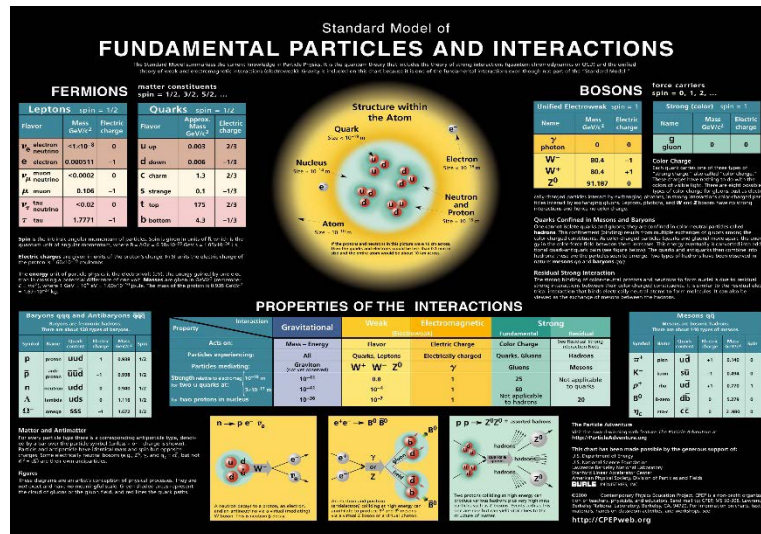
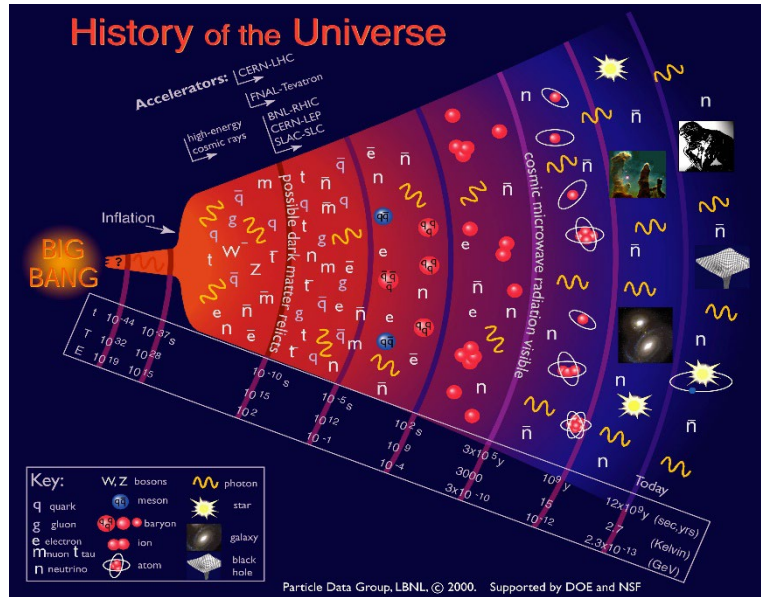


Figure 3.: Histogram of cavity gradient distribution for three different maximum beam energies in 1999 and 2000.

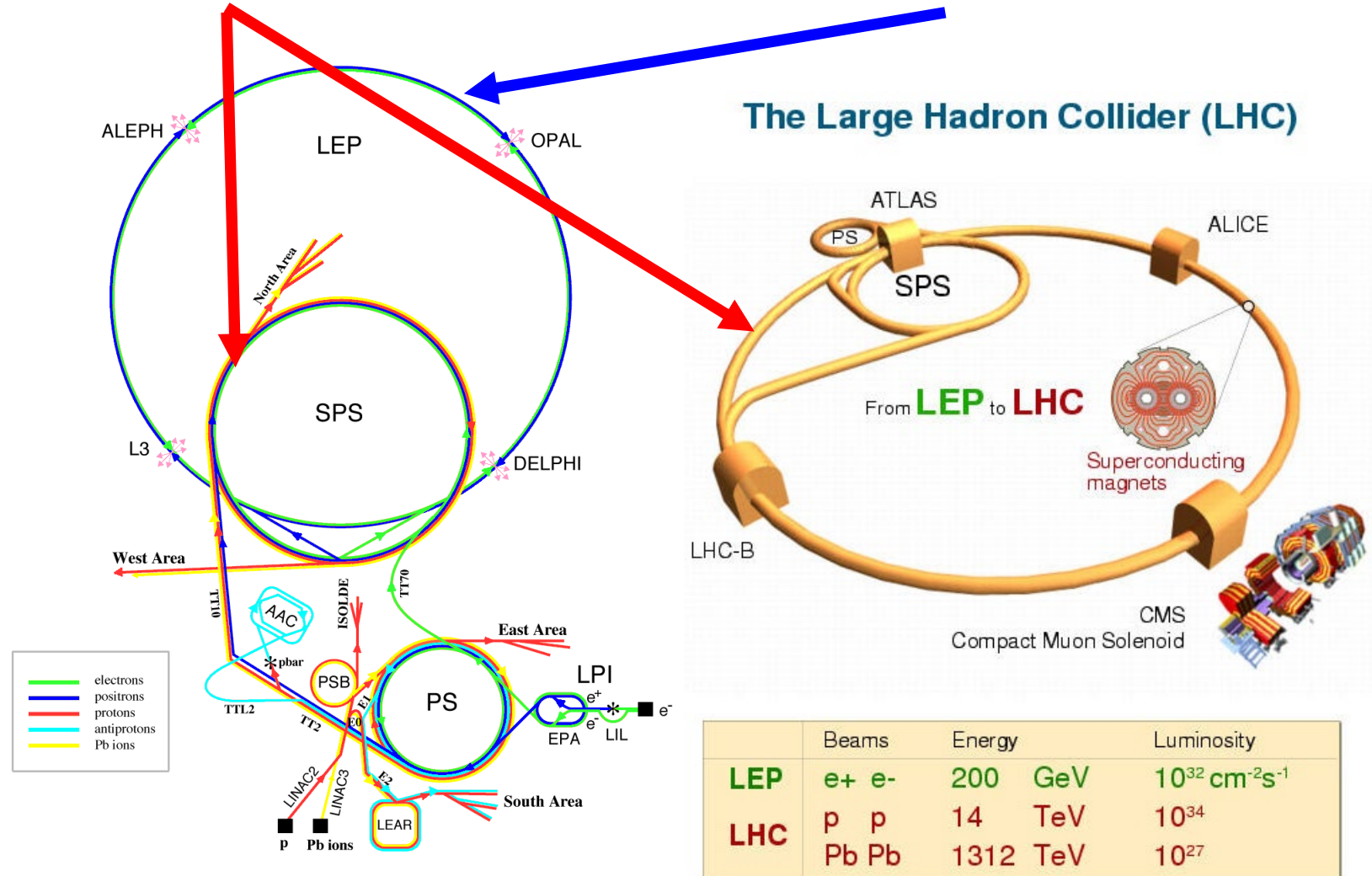


A complete picture was in progress



Hadrons for discovery

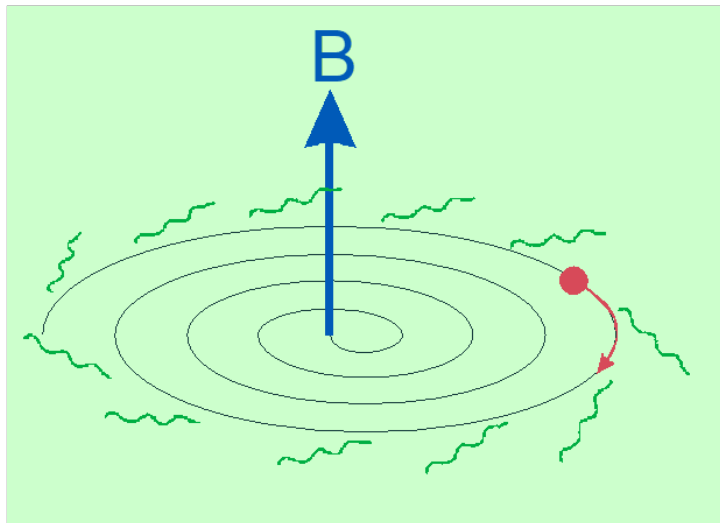
Leptons for understanding



Next Lepton Collider should be Linear, LC

Synchrotron Radiation

From an electron in a magnetic field:

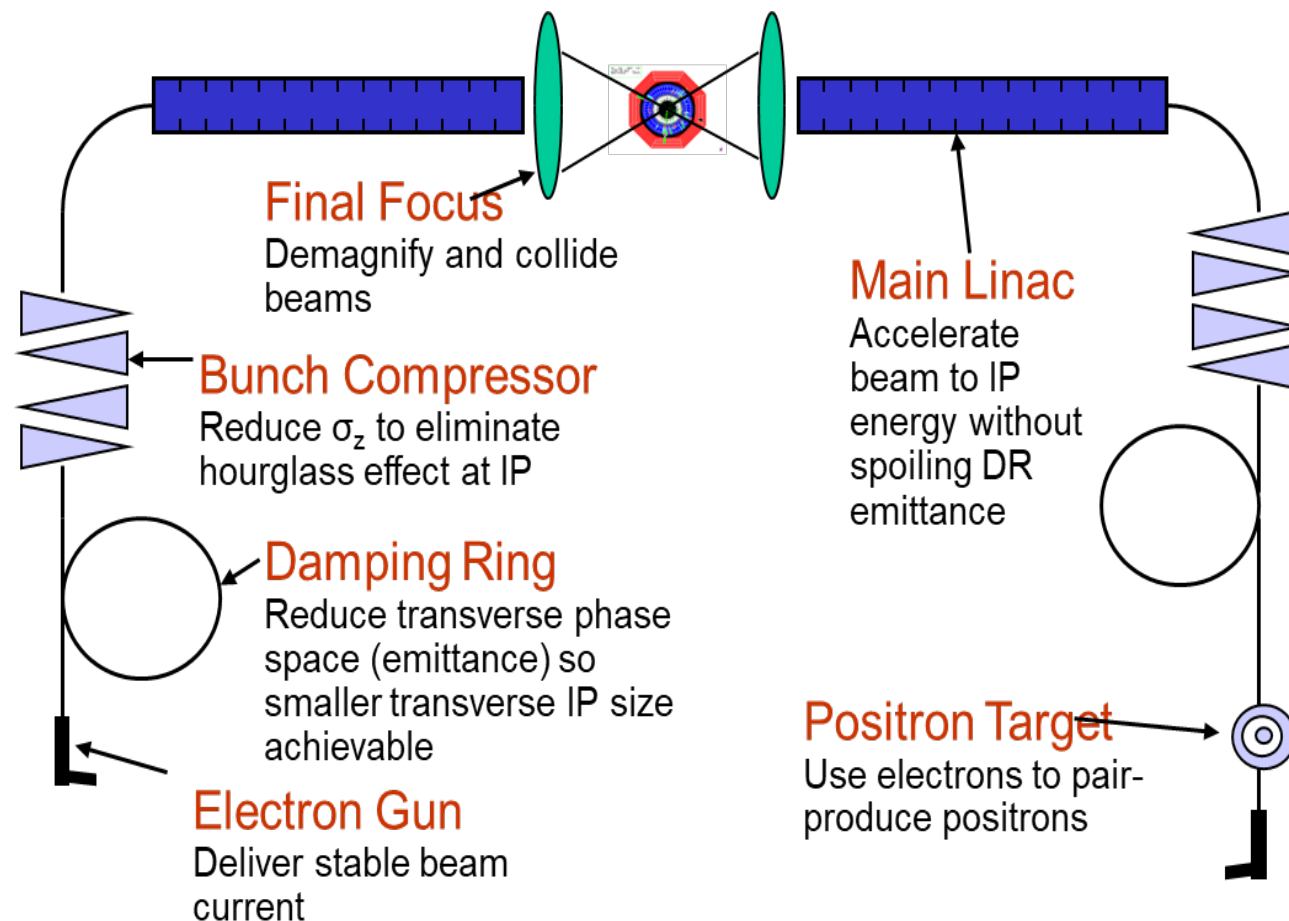


Energy loss must be replaced by RF system

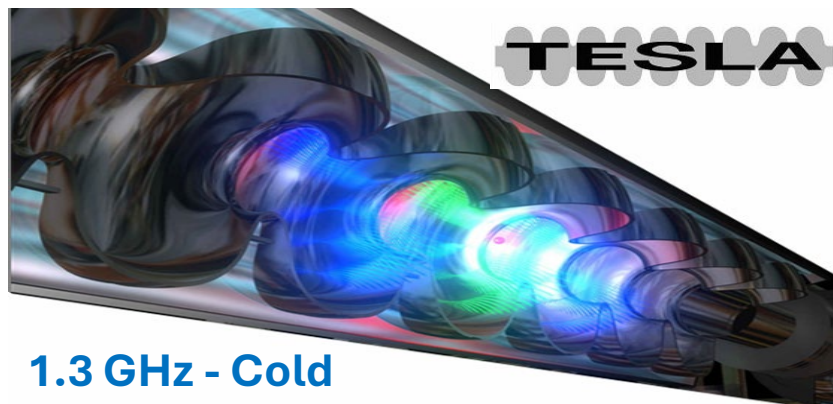
$$U_{SR} [\text{GeV}] = 6 \cdot 10^{-21} \cdot \gamma^4 \cdot \frac{1}{r [\text{km}]}$$

$$\text{\$} \propto E_{cm}^2$$

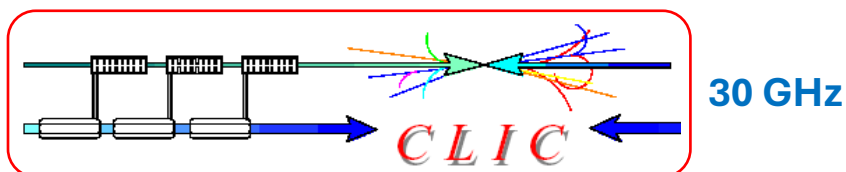
Linear Collider Schematics



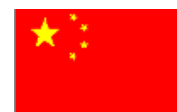
LC competition and the TESLA Collaboration



1.3 GHz - Cold



Ph. Institute Yerevan



IHEP Beijing
Tsinghua University



IN2P3/LAL Orsay
IN2P3/IPN Orsay
DSM/DAPNIA Saclay



INFN LNF
Univ. Roma II
INFN LNL
INFN Milano - LASA



Argonne/APS
Cornell University
Fermilab
UCLA Dep. Of Physics
Thomas Jefferson Lab



RWTH Aachen
BESSY Berlin
Max-Born Institut Berlin
Hahn-Meitner- Institut
Berlin
TU Berlin
TU Darmstadt
TU Dresden
Frankfurt University
GKSS Research Center
DESY
Hamburg University
FZ Karlsruhe
Rostock University
Wuppertal University



Ph. Institute Helsinki



Polish Acad. Of Science
Warsaw University
Inst. Of Nuclear Physics, Cracow
Univ. Of Mining & Metallurgy, Cracow
Polish Atomic Energy Agency, Warsaw
Soltan Inst. For Nuclear Studies, Otwock-Swierk
High Pressure Research Center, Warsaw

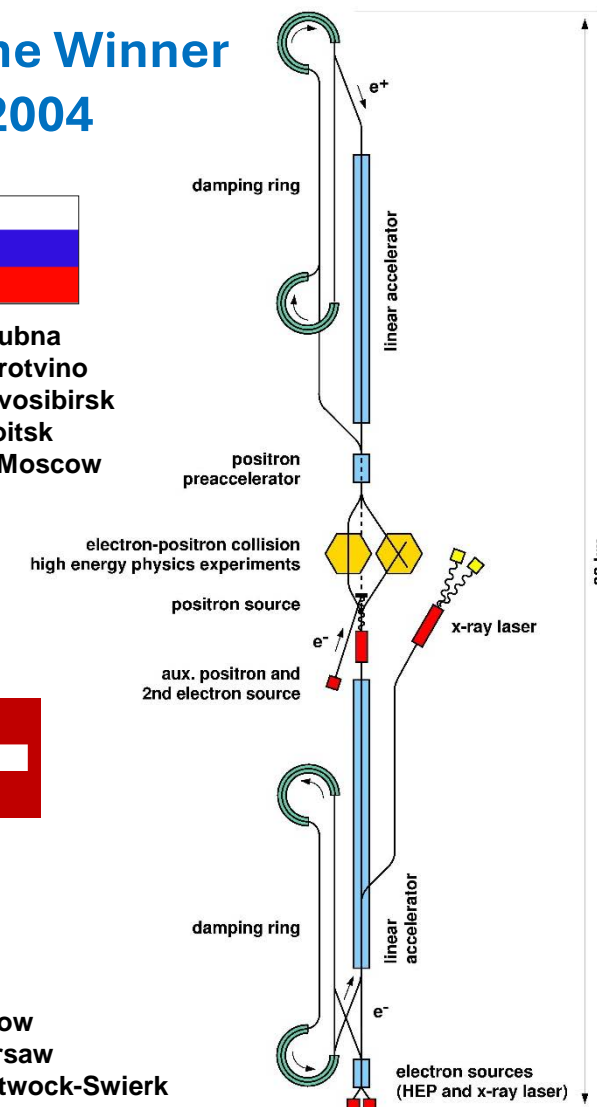
**TESLA, the Winner
in 2004**



JINR Dubna
IHEP Protvino
INP Novosibirsk
INR Troitsk
MePhI Moscow



PSI



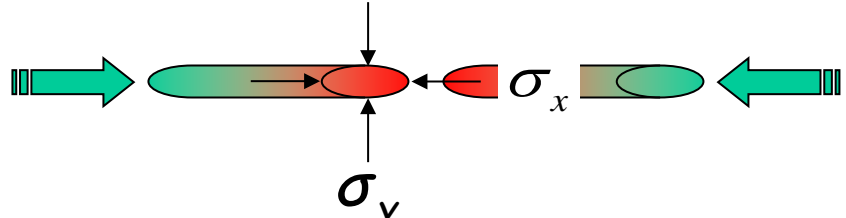
Article 11 - Intellectual Property

All technical know-how (including inventions) gained and procedures developed in the course of the project by any of the partners, whether protected or not, will be available to all partners free of cost, who can use them for their own research projects and for the purpose of the project.

If possible industrial contracts should reflect these guidelines.

Luminosity is Proportional to Beam Power

C. Pagani - ISLC08 - Lecture 1
Oak Brook, October 20, 2008

$$L \propto \frac{N_e^2}{\sigma_x \sigma_y}$$


$$L \propto n_b \times f_{rep}$$

L = Luminosity

N_e = # of electron per bunch

$\sigma_{x,y}$ = beam sizes at IP

IP = interaction point

$$L \propto \frac{P_b}{E_{c.m.}} \times \frac{N_e}{\sigma_x \sigma_y}$$

n_b = # of bunches per pulse

f_{rep} = pulse repetition rate

P_b = beam power

$E_{c.m.}$ = center of mass energy

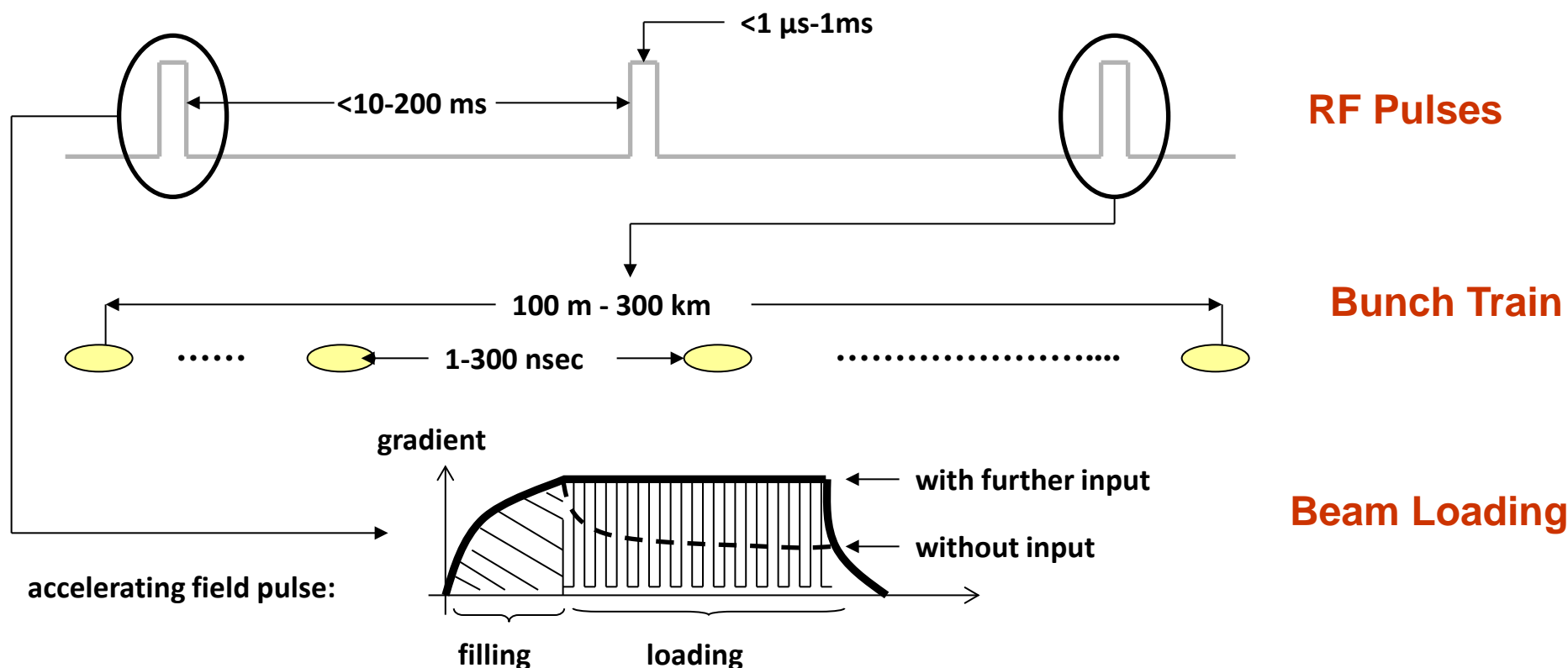
Parameters to play with

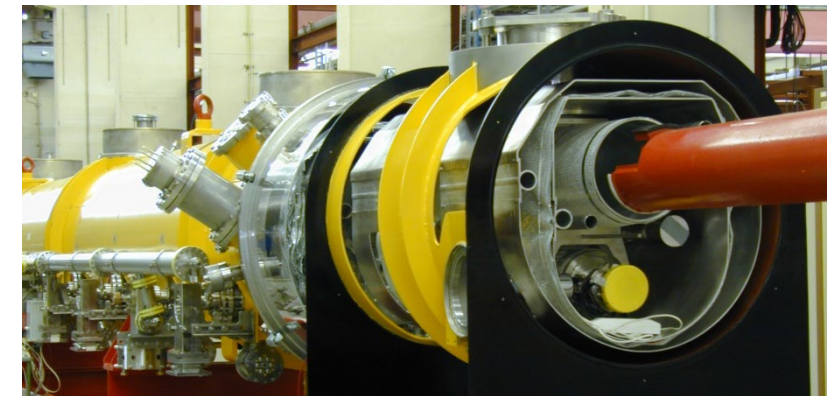
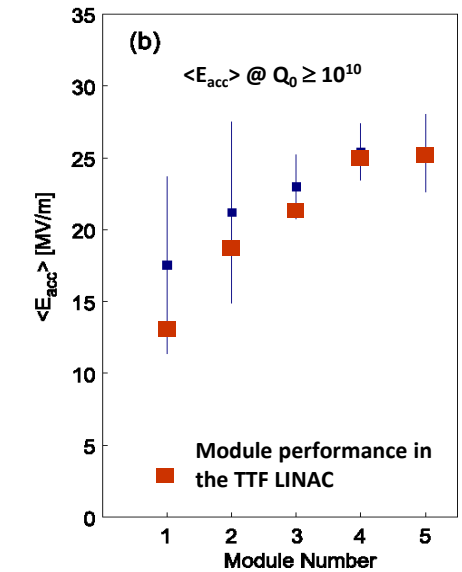
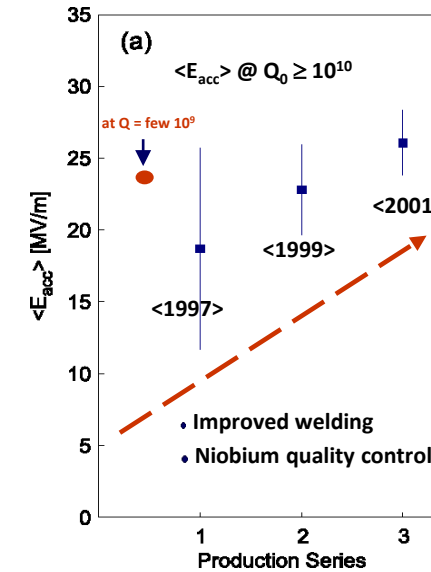
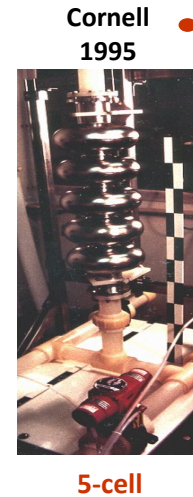
- ↓ Reduce beam emittance ($\epsilon_x \cdot \epsilon_y$) for smaller beam size ($\sigma_x \cdot \sigma_y$)
- ↑ Increase bunch population (N_e)
- ↑ Increase beam power ($P_b \propto N_e \times n_b \times f_{rep}$)
- ↑ Increase beam to-plug power efficiency for cost

All the LCs must be pulsed machines to improve Plug Power to Beam
Power conversion efficiency. As a result:

- duty factors are small
- pulse peak powers can be very large

C. Pagani - ISLC08 - Lecture 1
Oak Brook, October 20, 2008





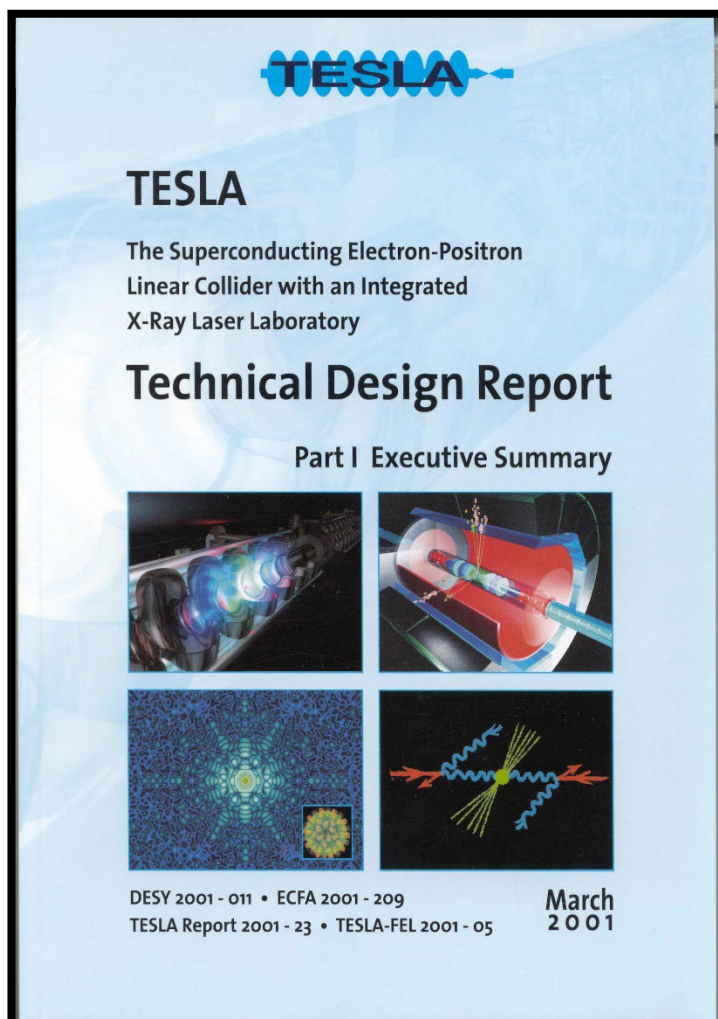
TESLA TDR kick-off meeting March 2001



1000 participants, 40% from abroad

- Cold reaction from German Government to the proposal to host the TESLA inear collider
- Insufficient momentum from the HEP international community, inspired by CERN
- Understanding of the potentiality opened by the TESLA driven SRF technology
- Endorsement of the science prospectives coming from the realization of an X-Ray Free-Electron Laser
- Interest for a stand alone X-Ray FEL

From TESLA TDR to an independent XFEL

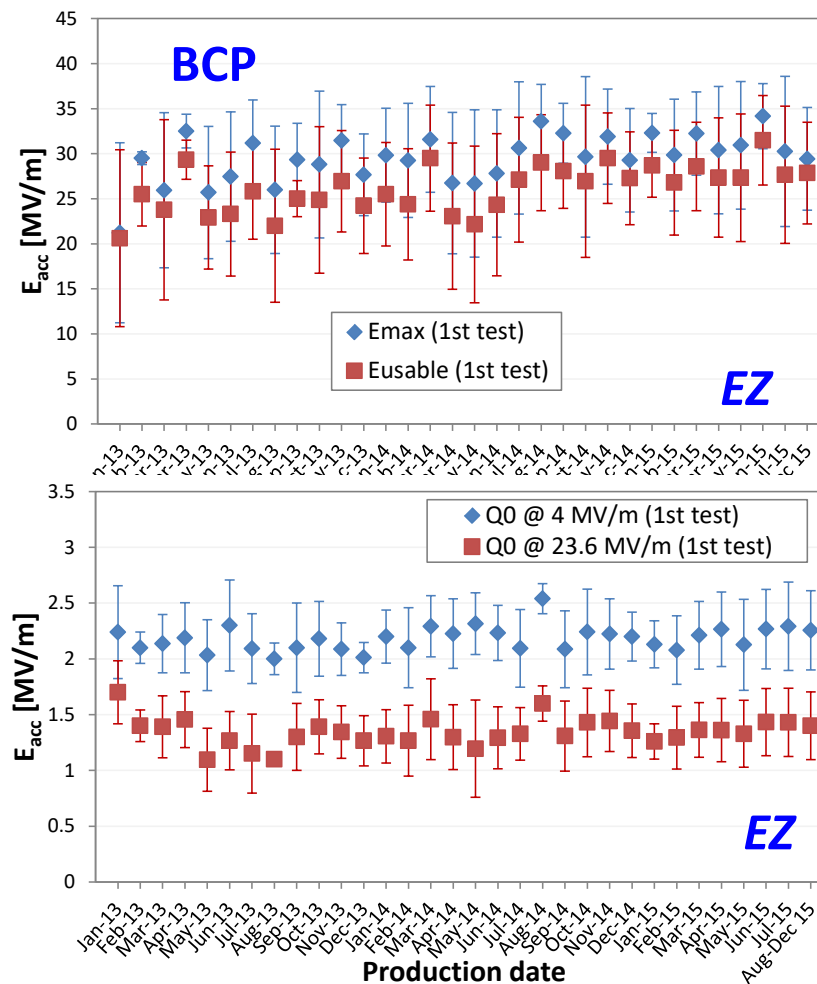
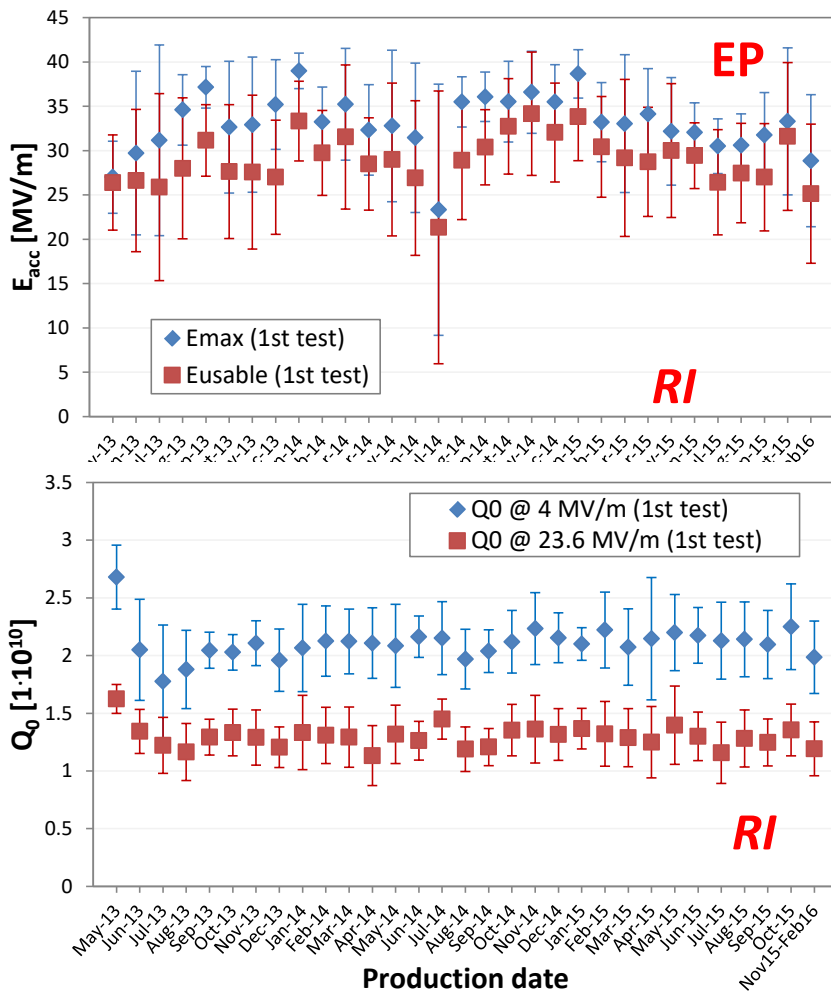


On request of German Science Council

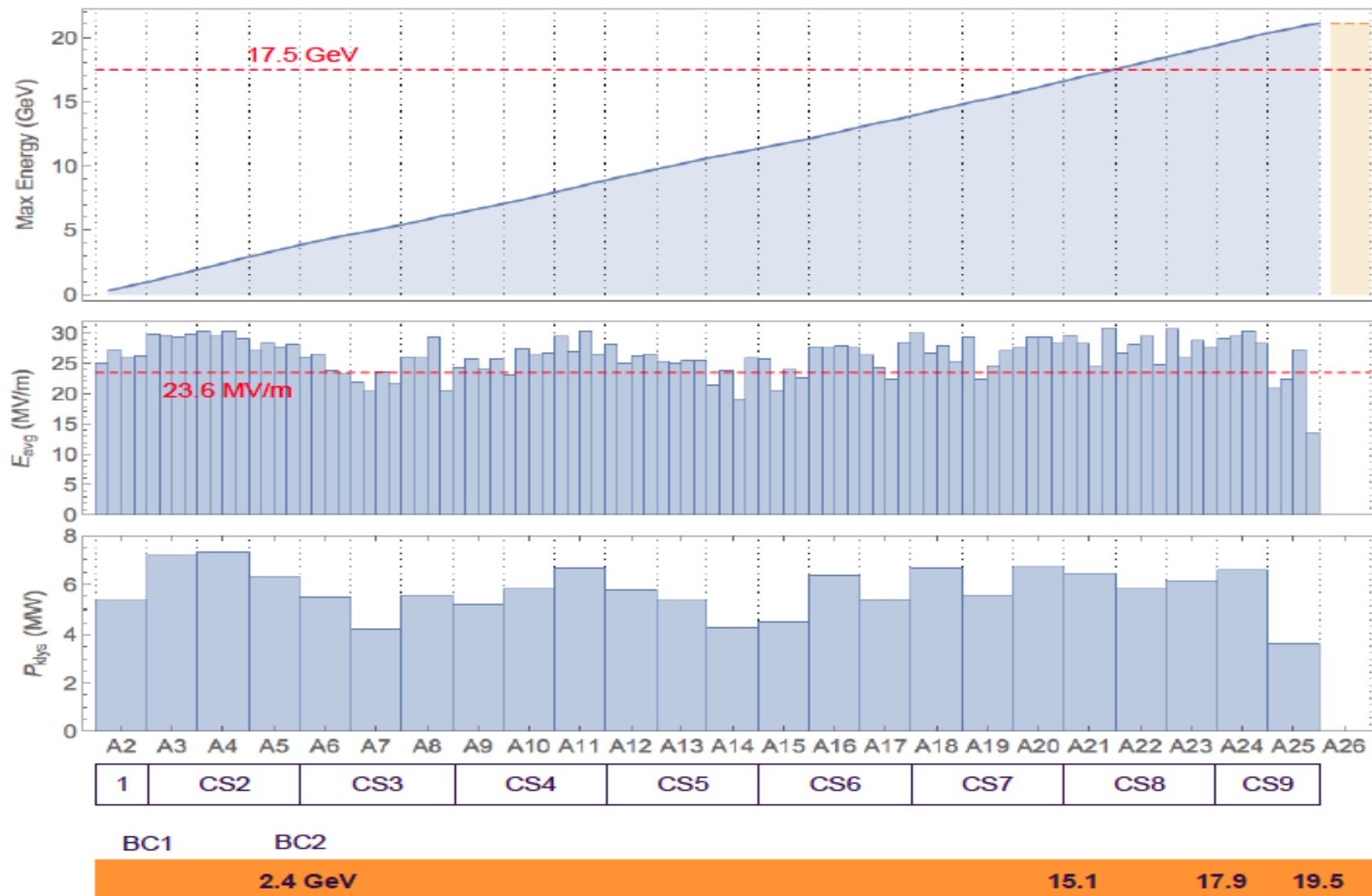
**Feb 2003 - Decision by
German Government:**

**Germany will cover half
of the cost of the free-
electron laser facility
proposed by DESY, which
has to be realized in a
European collaboration.**

1.3 GHz Eu-XFEL cavities «as received»



E-XFEL: Usable Installed Voltage

















TESLA Technology Collaboration

Mission Statement

The mission of the TESLA Technology Collaboration (TTC) is to advance superconducting RF accelerator R & D and related accelerator studies across the broad diversity of scientific applications, and to keep open and provide a bridge for communication and sharing of ideas, developments, and testing across associated projects.

To this end the Collaboration supports and encourages free and open exchange of scientific and technical knowledge, expertise, engineering designs, and equipment.

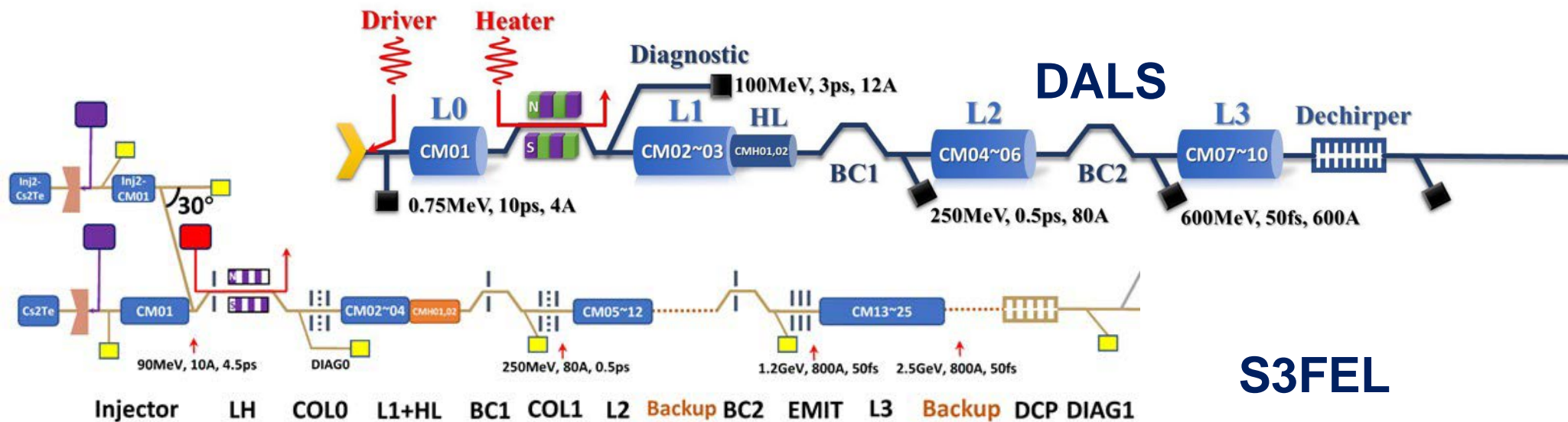
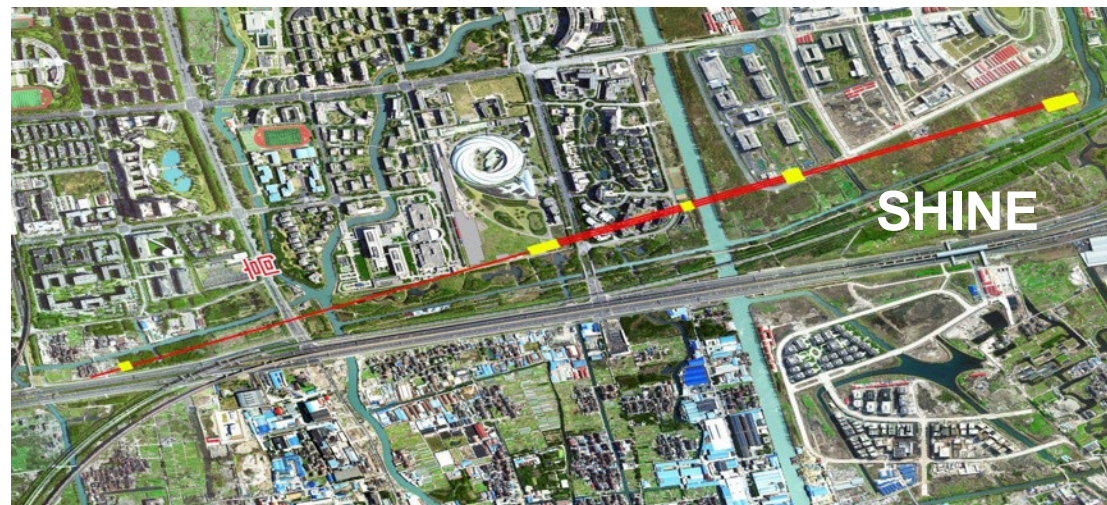


	<ul style="list-style-type: none"> CANDLE, Yerevan Yerevan Physics Institute, Yerevan 	CANDLE Coordinator website under construction		<ul style="list-style-type: none"> INFN, Laboratori Nazionali di Frascati INFN, Laboratori Nazionali di Legnaro INFN, Laboratori Acceleratori e Superconduttività Applicata, Milano INFN Roma Tor Vergata Electra Sincrotrone Trieste 	COLD Lab Superconductivity LASA Rome II & ATLAS Sincrotrone Trieste
	<ul style="list-style-type: none"> TRIUMF, Canada's particle accelerator centre 	ABEL		<ul style="list-style-type: none"> Ko-Eneruji, Kasokuki Kenkyo Kiko, KEK Rikagaku Kenkyujo, RIKEN Institute for Quantum and Radiological Science and Technology, QST Japan Atomic Energy Agency JAEA 	Accelerator Laboratory RNC Rokkasho Fusion Institute
	<ul style="list-style-type: none"> Institute of High Energy Physics, IHEP Tsinghua University Peking University Institute of Modern Physics, IMP, Lanzhou Shanghai Institute of Applied Physics, SARI Institute of Advanced Science Facilities - Shenzhen, IASFC 	Accelerator Technology and Science Department of Engineering Physics link will be added soon LINAC Center CAS		<ul style="list-style-type: none"> The Henryk Niewodniczanski Institute of Nuclear Physics AGH University of Science and Technology National Centre for Nuclear Research, NCBJ, Swierk Institute of High Pressure Physics, Warsaw University of Warsaw Lodz University of Technology, TUL Warsaw University of Technology, JSC 	IEJ PAN Department of Solid State Physics Accelerator physics NCBJ Faculty of Physics Institute of Physics The Faculty of Electronics and Information Technology & The Faculty of Physics
	<ul style="list-style-type: none"> Commissariat à l'Energie Atomique, CEA/DSM, Saclay Centre national de la recherche scientifique, CNRS, Paris LAL, became part of ICLab, Orsay Institut de Physique Nucléaire, IPN, Orsay Synchrotron SOLEIL 	BEU DACH link will be added soon Accelerator Department SUPRATECH link will be added soon		<ul style="list-style-type: none"> Moscow Engineering Physics Institute, MEPhI Budker Institute for Nuclear Physics, BINP Institute of High Energy Physics, IHEP, Protvino Institute for Nuclear Research, INR 	Institute of Nuclear Physics and Engineering Russian Academy of Sciences (INPE SB RAS) Department of High Energy Physics FEPP-MIPT link will be added soon
	<ul style="list-style-type: none"> Helmholtz-Zentrum Berlin, HZB Technische Universität Darmstadt Universität Frankfurt am Main Helmholtz-Zentrum Geesthacht, HZG Deutsches Elektronen-Synchrotron, DESY Universität Hamburg Helmholtz-Zentrum Dresden-Rossendorf, HZDR Universität Rostock Bergische Universität Wuppertal Johannes Gutenberg Universität Mainz 	Supralab S-DALINAC & TME Accelerator Physics Institute of Materials Research FLASH & XEL & M&S & MSL Accelerator Physics ELBE Electromagnetic Field Theory Field Emission MESA		<ul style="list-style-type: none"> Institute for Basic Science, IBS 	Rare Isotope Science Project
	<ul style="list-style-type: none"> Science and Technology Facilities Council, STFC Royal Holloway, University of London University College London The John Adams Institute for Accelerator Science 	Accelerator Science SuperFAB UK-CSOS Department of Physics and Astronomy link will be added soon		<ul style="list-style-type: none"> Uppsala University 	FREIA
	<ul style="list-style-type: none"> Raja Ramanna Centre of Advanced Technology, RRCAT Bhabha Atomic Research Centre, BARC Inter-University Accelerator Centre, IUAC & Delhi University, DU Variable Energy Cyclotron Centre, VECC 	Superconducting Cavities Development Division Physical Science Superconducting Linear Accelerator Superconducting Cyclotron Beam Development Section		<ul style="list-style-type: none"> Argonne National Laboratory, ANL Fermi National Accelerator Laboratory, FNAL Cornell University, Ithaca NY Thomas Jefferson National Accelerator Facility Stanford Linear Accelerator Center, SLAC Lawrence Berkeley National Laboratory, LBNL Michigan State University, MSU Oak Ridge National Laboratory, SNS Brookhaven National Laboratory, BNL 	Accelerator Development EAST CLASSIE Jefferson Lab UCL-S-J Accelerator Technology and Applied Physics Division Accelerator Science and Engineering Research Accelerator Division RNSC

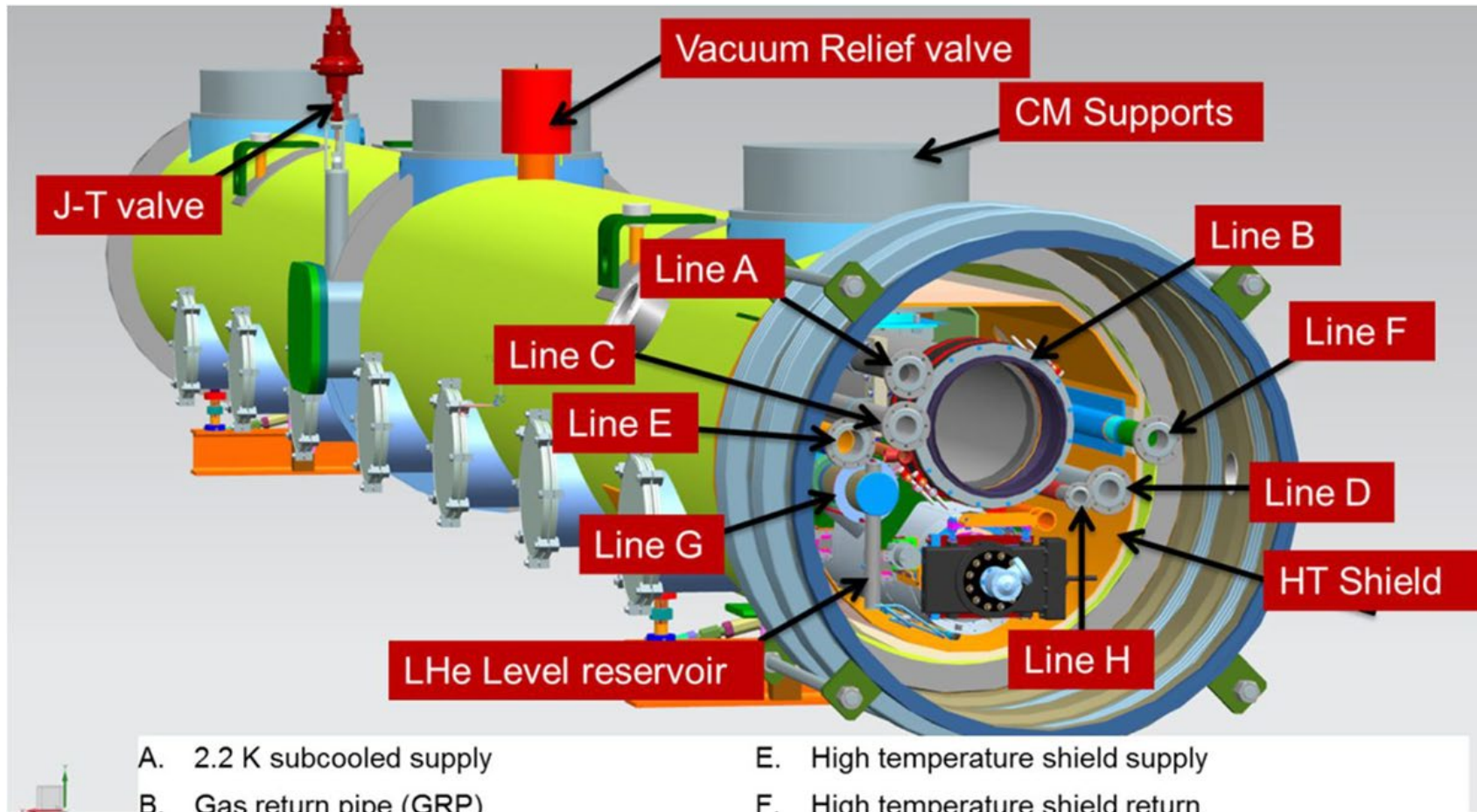
European Organisations

	<ul style="list-style-type: none"> European Spallation Source, ESS 	ESS Accelerator Division & LINAC
	<ul style="list-style-type: none"> European Council for Nuclear Research, CERN 	CERN's accelerator complex
	<ul style="list-style-type: none"> Joint Institute for Nuclear Research, JINR, Dubna 	Research Facilities

New CW XFEL from TESLA Technology



TTC: US modifications for CW and High Q



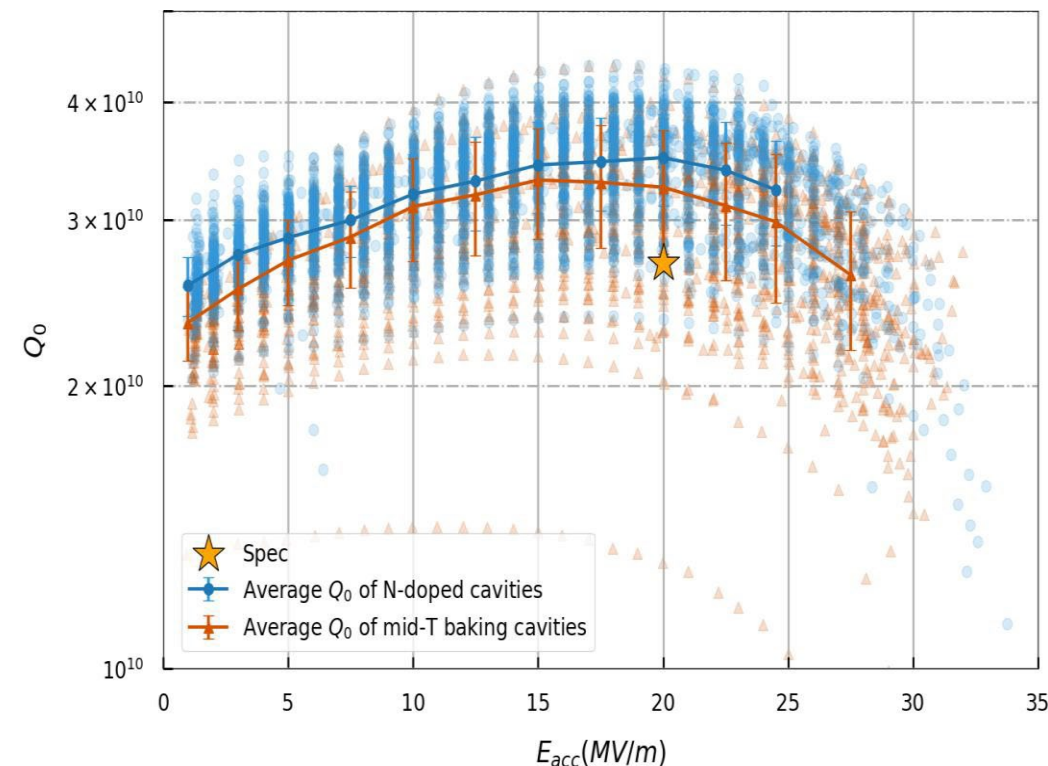
- | | |
|-------------------------------------|-----------------------------------|
| A. 2.2 K subcooled supply | E. High temperature shield supply |
| B. Gas return pipe (GRP) | F. High temperature shield return |
| C. Low temperature intercept supply | G. 2-phase pipe |
| D. Low temperature intercept return | H. Warm-up/cool-down line |

LCLS-II Director's Review, August 19-21, 2014

J.N. Galayda @ Linac2014

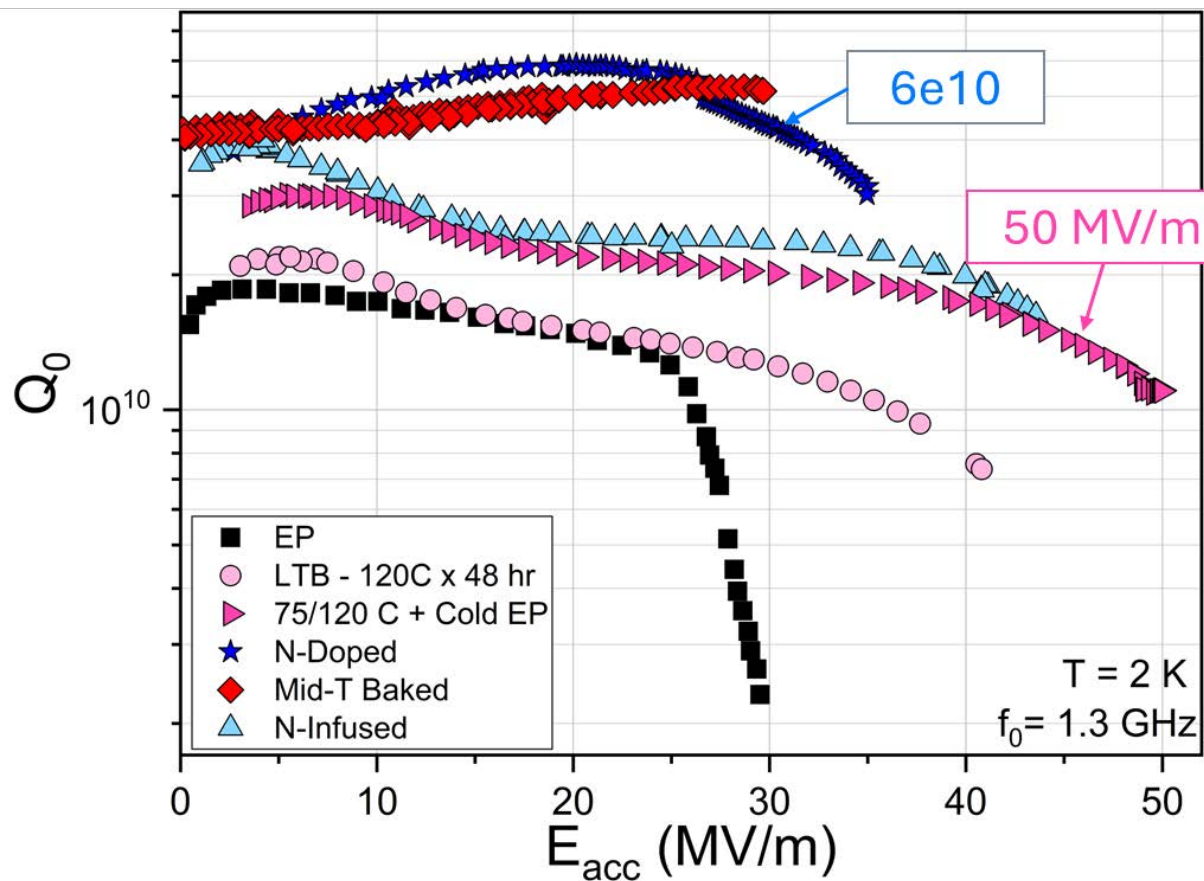
- **252 dressed cavities are tested** including:
 - 126 mid-T baked cavities
 - 126 N-doped cavities
- **192 cavities qualified (76%)**
 - 152 qualified as received
 - 30 with FE, qualified after HPR
 - 10 with Q-switch or low Q, qualified after retest
- **36 concessionally accepted for CM assembly (14%)**
 - $E_{acc} \geq 19$ MV/m, or $Q_0 \geq 2.5E+10 @ 20$ MV/m
- **24 cavities still unqualified (10%)**
 - 4 with FE, awaiting further HPR
 - 20 with too low E_{acc} or Q_0 , need repair (on going)

Hongtao HOU @ SRF 2025



Recipes	Ave. max E_{acc} (MV/m)	Ave. Q_0
Mid-T	27.5	3.2E+10
N-doping	24.5	3.5E+10

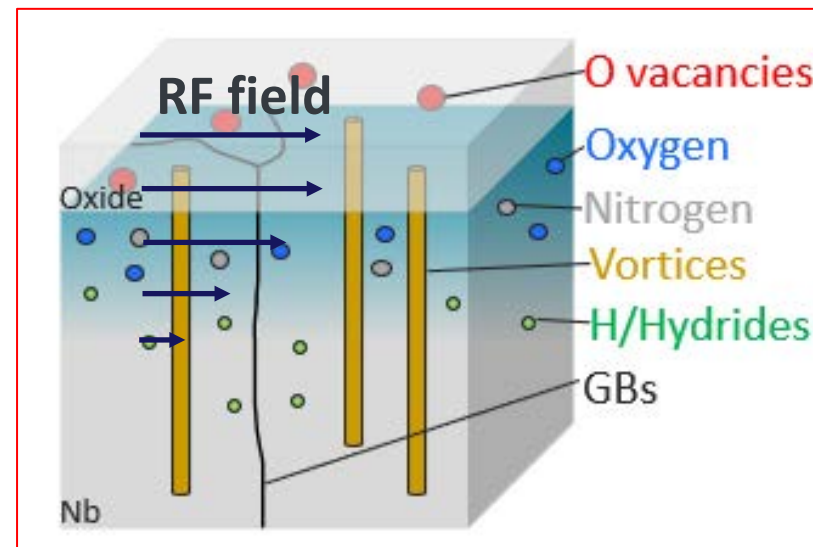
State-of-the-Art FNAL Cavities Post Various Treatments



Daniel Bafia @ LCWS 2025

Conclusions

- Coupled **RF and materials science** studies advance microscopic understanding of SRF materials, **revealing how impurities and defects govern performance.**
- Impurity (N or O) tailoring tunes SRF properties
 - N is $\sim 10\times$ more effective than O at lowering R_{BCS} .
- Optimized EP is critical to realize impurity-tailoring benefits
 - Minimizes H uptake, smooths surface and removes lossy inclusions.
- H and lattice defects identified as key loss sources in Nb films
 - Annealing mitigates these losses and improves film performance.



SRF Accelerators for Free-Electron Lasers

European XFEL (DESY)

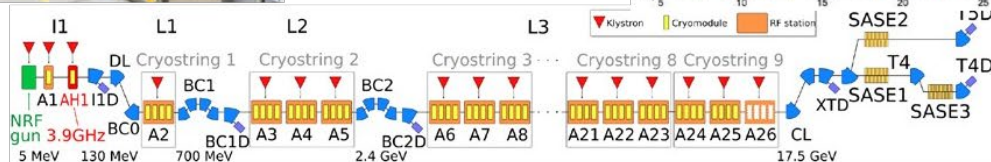
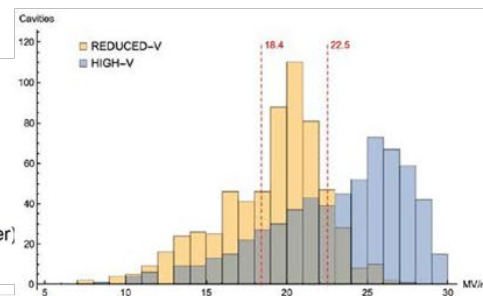


Cavity operation

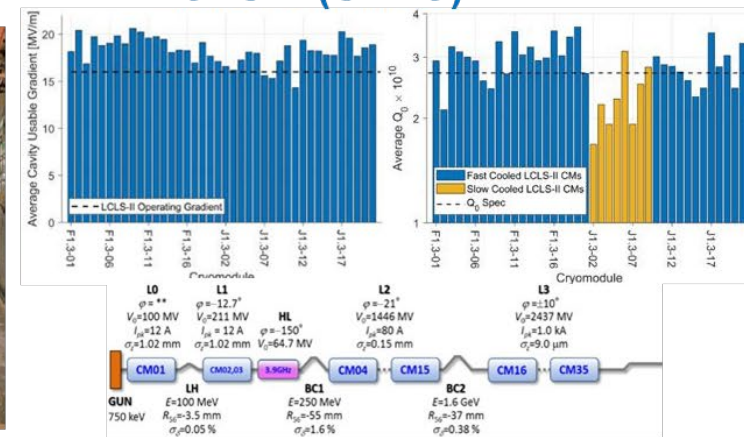
776x 1.3 GHz TESLA cavities

Typical operation conditions

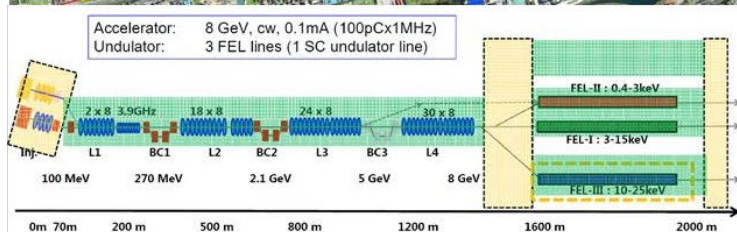
- Average gradient + spread
- Coupler power (x4 for peak power)
- Measured $Q_0 = 1 \times 10^{10}$



LCLS-II (SLAC)



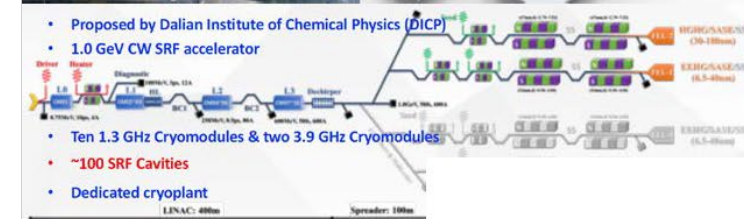
SHINE (Shanghai)



S3FEL (Shenzhen)



DALS (Dalian)



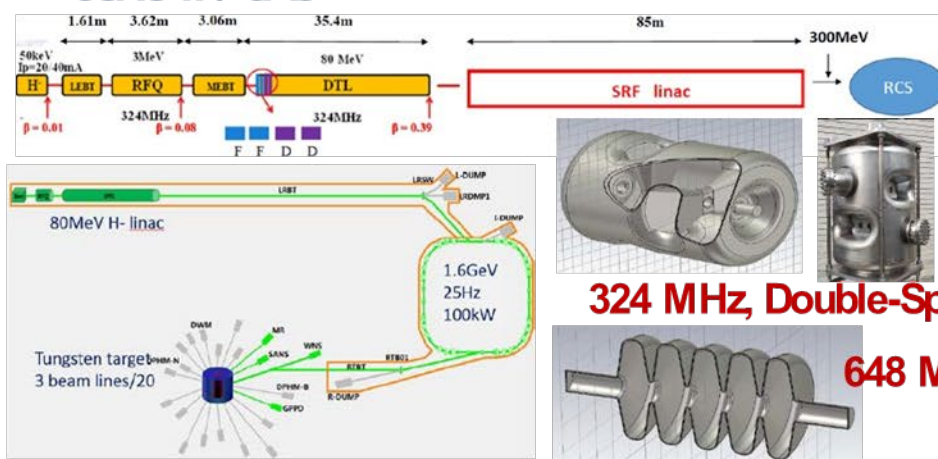
● SNS-PPU (ORNL) (Proton Power Upgrade)



[by SNS/ ORNL Home page]

● CSNS-II / CAS

[H. Liu (IHEP/CSNS) in HPFA-WS2019]

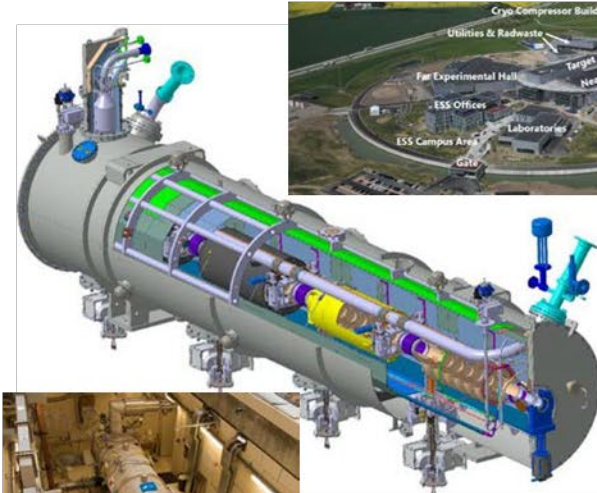
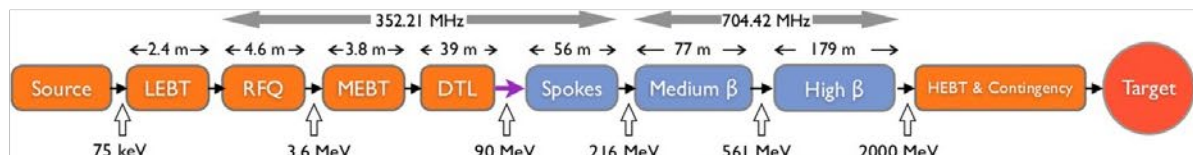


324 MHz, Double-Spoke, $\beta = 0.50$



● ESS(Lund) (European Spallation Source)

[G. Devanz (CEA) in SRF19]



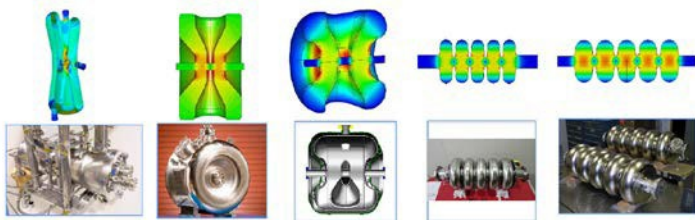
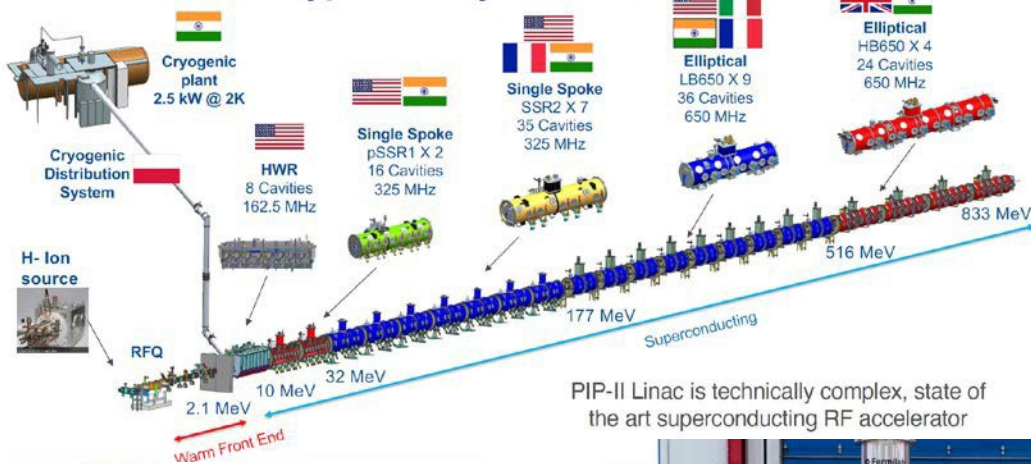
Proton and Deuteron SRF Accelerators

PIP-II (FNAL) (Proton Improvement Plan –

[A. Klebaner
(FNAL) in SRF21]

II)

PIP-II Superconducting RF CW Linac, 2mA, 800 MeV
Consists of Five Types of Cryomodules

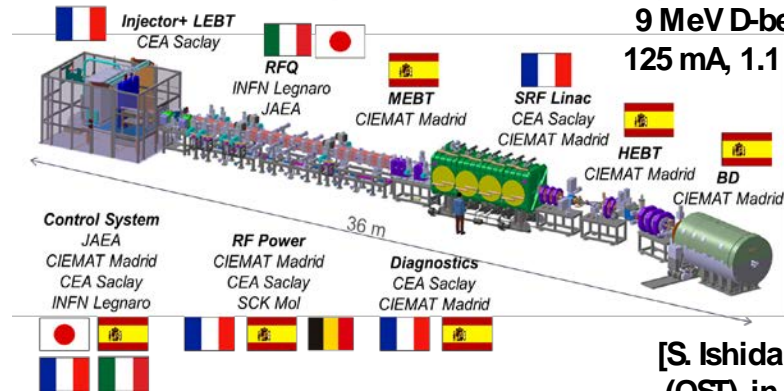


Description	Units	HWR (8)	SSR1 (16)	SSR2 (35)	LB650 (36)	HB650 (24)
Type		Half-Wave	Single Spoke	Single Spoke	Elliptical	Elliptical
β		0.11	0.22	0.47	0.61	0.92
Frequency	MHz	162.5	325	325	650	650
Q_0		$8.5 \cdot 10^9$	$8.2 \cdot 10^9$	$8.2 \cdot 10^9$	$2.4 \cdot 10^{10}$	$3.3 \cdot 10^{10}$
Gradient	MV/m	9.7	10	11.5	16.8	18.7
E_{peak}	MV/m	44.9	38.4	40.3	40.2	38.8
B_{peak}	mT	48.3	58.1	77.4	75	72.8
N-doped		No	No	No	TBD	Yes



IFMIF-LIPAc (QST/ Rokkasho)

9 MeV D-beam
125 mA, 1.1 MW



[S. Ishida
(QST) in
SRF19]

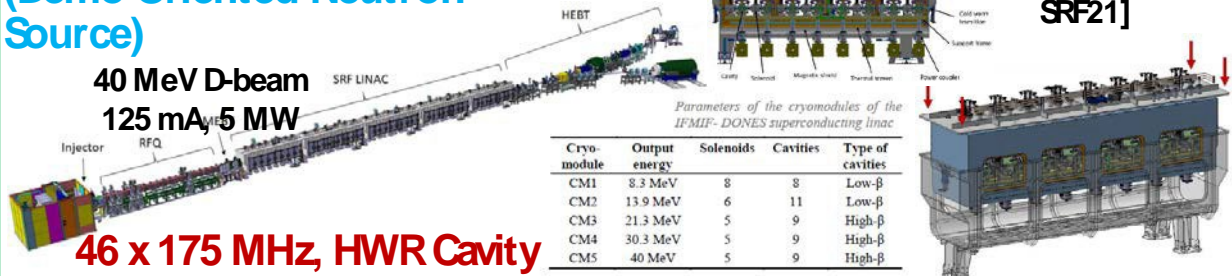
A-FNS (QST/Rokkasho) (Advanced Fusion Neutron Source)



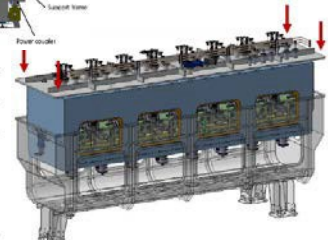
40 MeV D-beam
125 mA, 5 MW

DONES (F4E/CEA) (Demo Oriented Neutron Source)

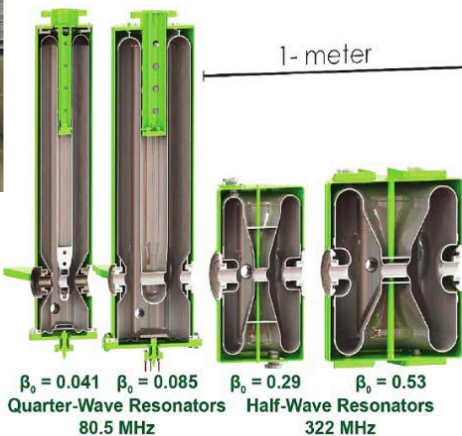
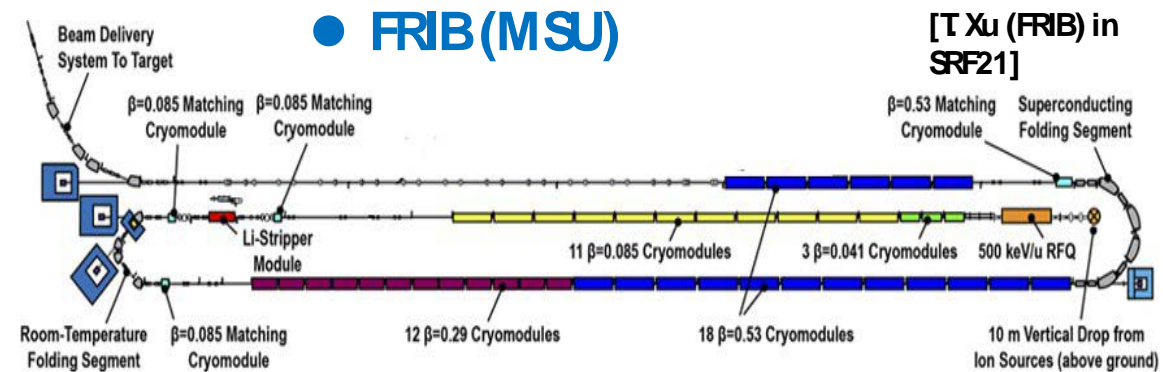
40 MeV D-beam
125 mA, 5 MW



Cryo-module	Output energy	Solenoids	Cavities	Type of cavities
CM1	8.3 MeV	8	8	Low- β
CM2	13.9 MeV	6	11	Low- β
CM3	21.3 MeV	5	9	High- β
CM4	30.3 MeV	5	9	High- β
CM5	40 MeV	5	9	High- β



● FRIB (MSU)

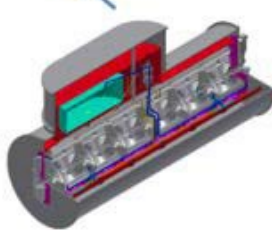
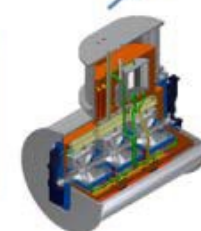
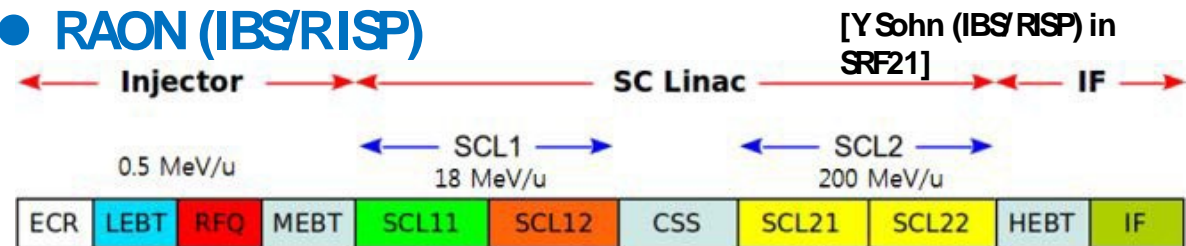


16+104 QWR:
80.5 MHz,
 $\beta = 0.041, 0.085$

72+148 HWR:
322 MHz,
 $\beta = 0.29, 0.53$

55 5-cell Cavity:
644 MHz,
 $\beta = 0.65$

● RAON (IBS/RISP)



28 QWR: 81.25MHz

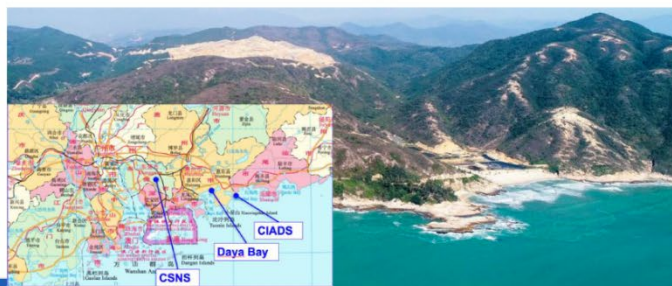
76 HWR: 162.5MHz

138 SSR2: 325MHz

69 SSR1: 325MHz



SRF for ADS (Accelerator Driven System)

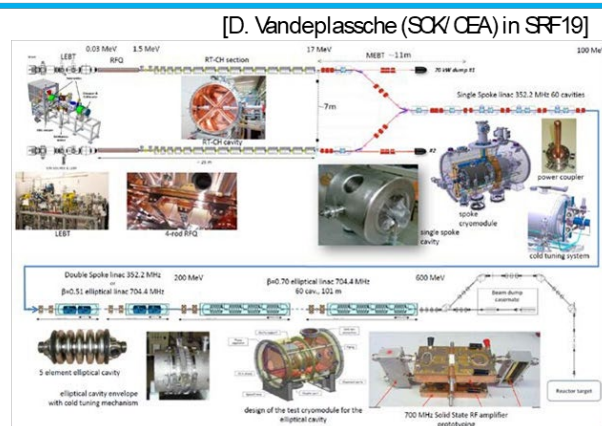
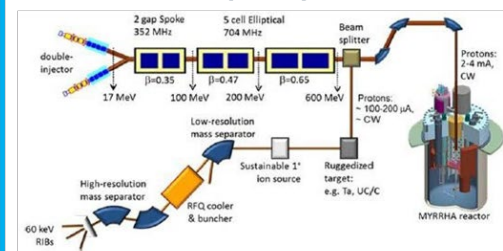


- Approved in Dec. 2015, Ground broke in August 2018, Officially started in July 2021
- Leading institute: IMP
- Budget: ~4 B CNY (Gov. 1.8B + CNNC 1.0 B + Local Gov. 1.2 B)
- Location: Huizhou, Guangdong Prov.
- Partners: CIAE, CGN, IHEP, etc.

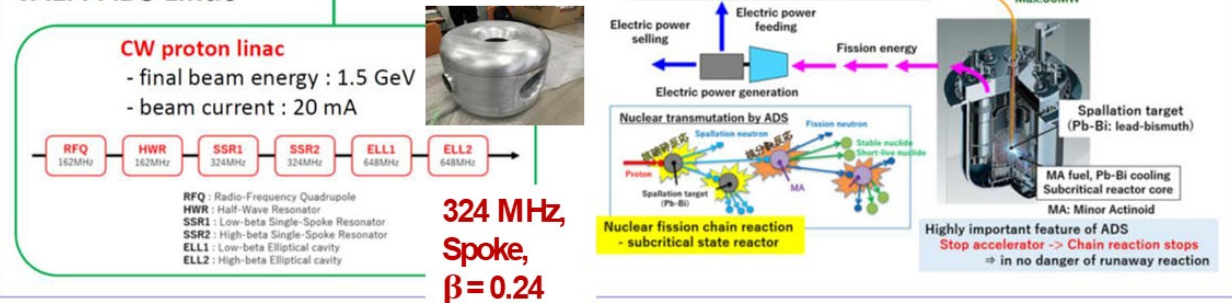
CiADS linac: progress and first beam of normal frontend, Zhijun Wang

6

MYRRHA (ADS) / SCK-CEN



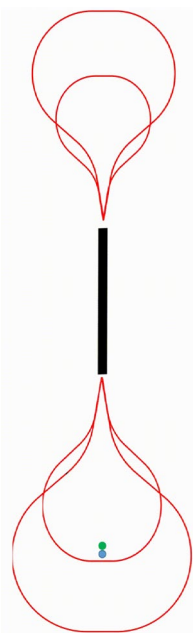
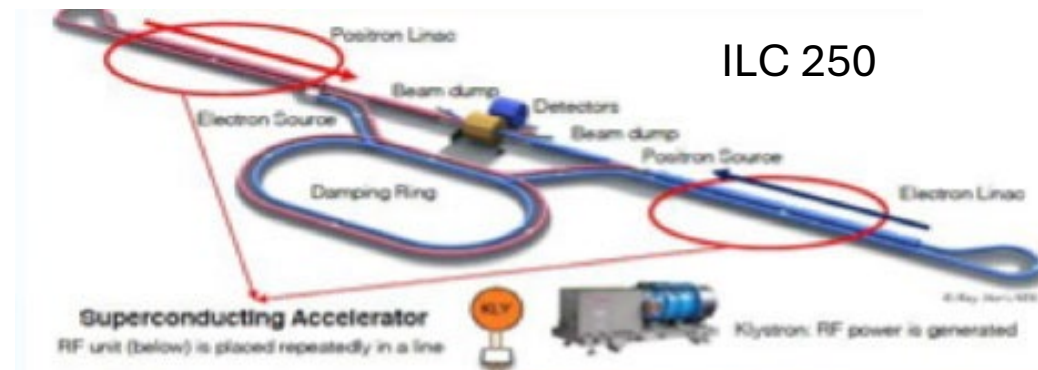
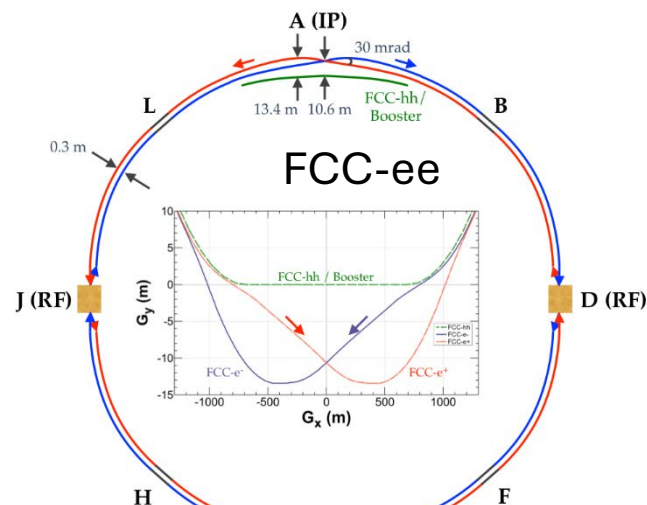
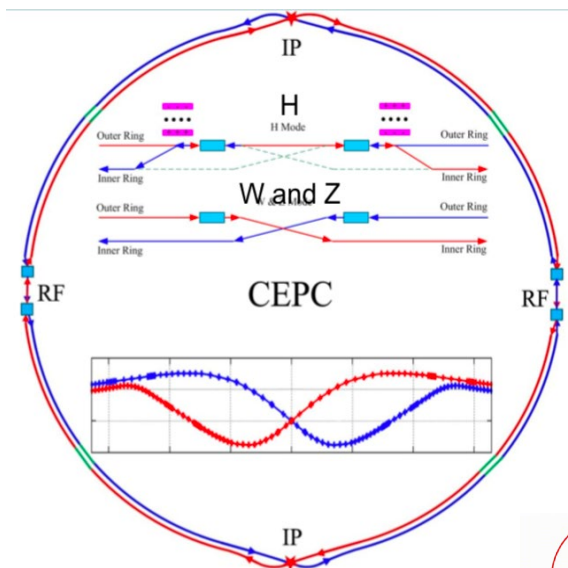
JAEA-ADS Linac



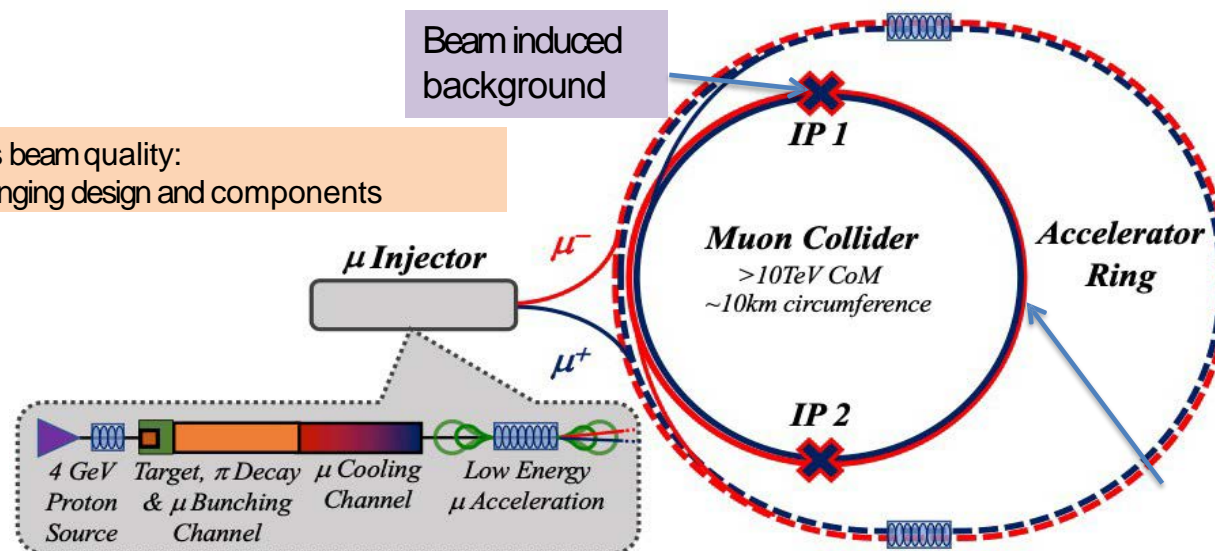


A collage of logos for various academic and research institutions, including Fermilab, Northwestern University, rigetti, AMES National Laboratory, NASA Ames Research Center, NIST, Colorado School of Mines, FORMFACTOR, Goldman Sachs, ILLINOIS INSTITUTE OF TECHNOLOGY, INFN, Jefferson Lab, Johns Hopkins University, LOCKHEED MARTIN, LSU, NPL National Physical Laboratory, NYU, and Royal Holloway University of London.

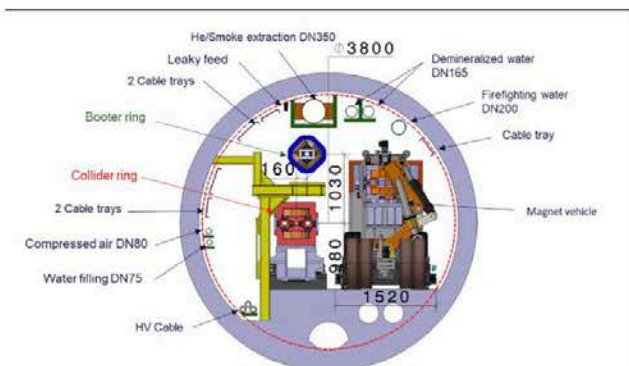
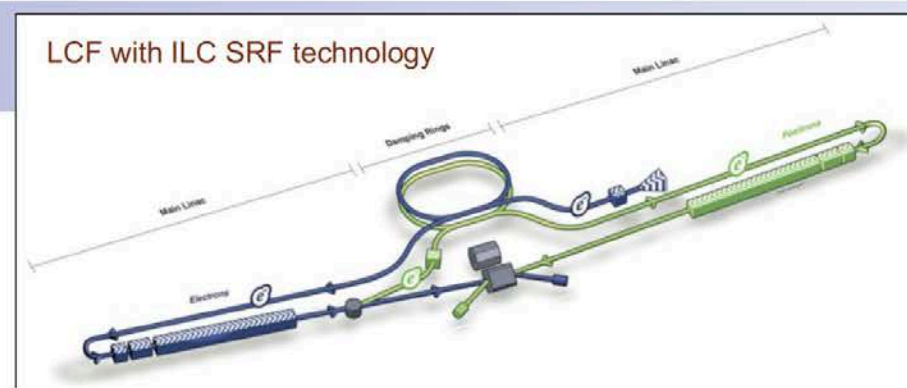
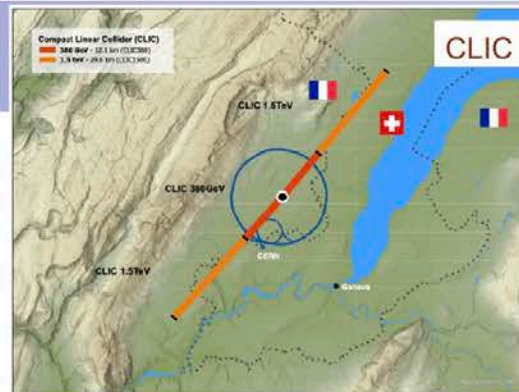
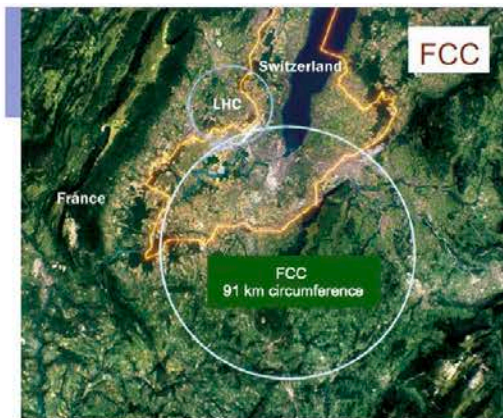
Top Level SRF for Future Lepton Colliders



Drives beam quality:
challenging design and components

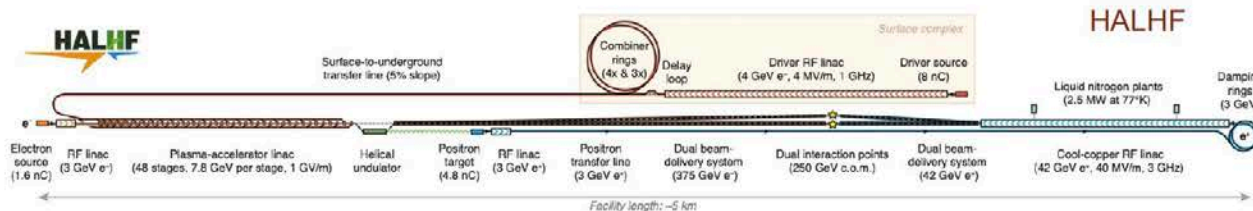
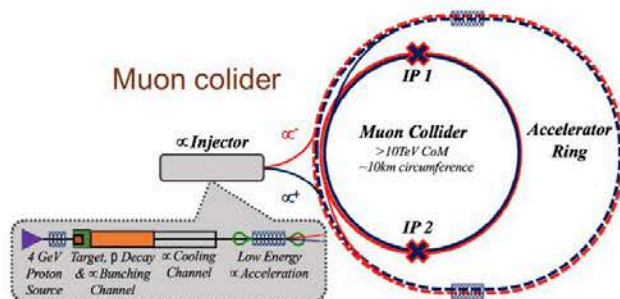
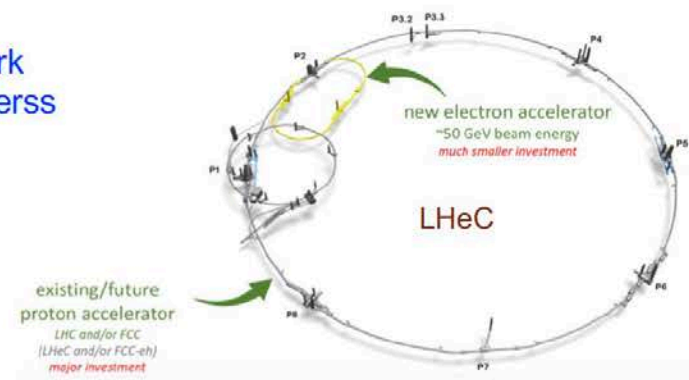


The CERN View (Venice, June 2025)



Huge amount of R&D and design work on a variety of proposed future colliders (varying levels of maturity, time scale, cost, physics reach/performance)

Fabiola Gianotti
Venice 2025





Start with mature technology, can expand in length and/or technology

Energy reach and flexibility:

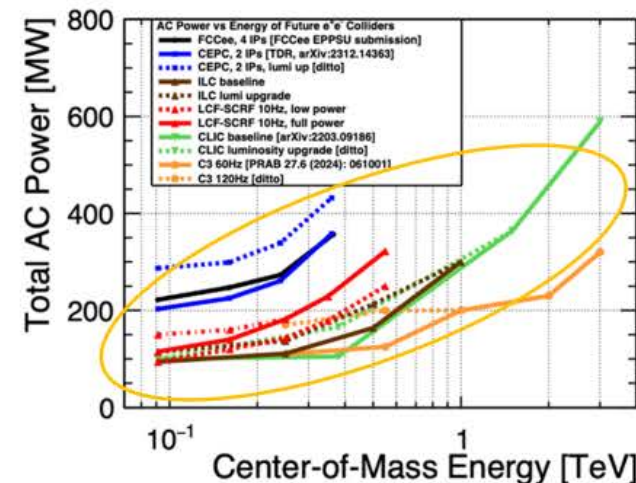
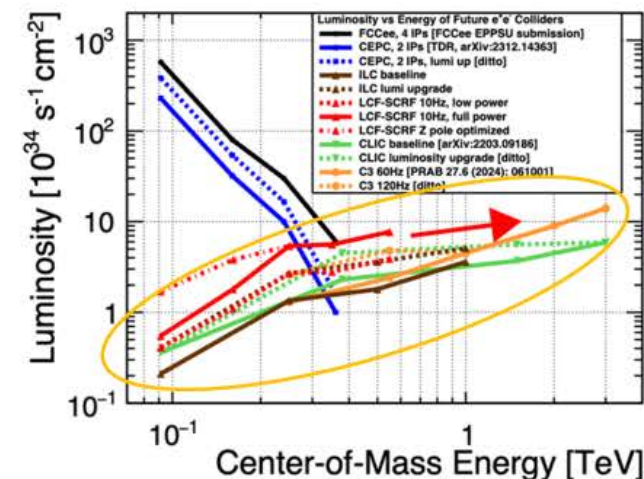
- **Physics opportunities from Z-pole to TeV(s)**
- Flexible (E,L,cost, power) to adapt to development in physics and technology

Footprint, cost, power – next slides:

- Lower cost to get to Higgs and top than a circular machine (initial machine)
- Power similar to LHC, or lower, for initial configuration
- Footprint (length/location) similar to LHC

Provide many opportunities and increased flexibility for the future:

- Does not determine footprint of future energy frontier machines (hadrons or muons), and it has its own upgrade opportunities
- Encourage accelerator and detector R&D for all these options



Steinar Stapnes @ LCWS 2025

The great demand for knowledge fueled by nuclear and particle physics has favored the technological development of magnetic and radiofrequency superconductivity, through the construction of large accelerators with the involvement of industry.

The fallout on medical devices (MRI, NMR), green energy (ADS) and advanced light sources (SR, XFEL) is currently underway, making conceivable also new huge infrastructures for fundamental physics (CEPC), which could trigger other future applications.

The pursuit of pure knowledge, typical of fundamental physics, has generated large-scale open and global collaborations, also producing technologies, such as the World Wide Web, accessible to all. With the TESLA collaboration, SRF has shared this mission, which today is a precious treasure that we must preserve.

SRF Accelerator Facility and Technology Workshop (2023)





Thank you for your attention