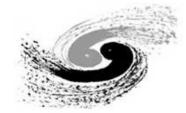
# Detector R&D Tasks

João Guimarães da Costa

December 11, 2019





Institute of High Energy Physics Chinese Academy of Sciences

### **IDRC Recommendations:**

#### Need to act on IDRC recommendations

- 1. The project leadership and IDRC should assemble a coherent list of R&D activities, such that the presence of gaps and overlaps can be determined and addressed
- 2. Each current R&D project should provide, before the end of 2019, key information to the IDRC:
  - The objectives of the project
  - The anticipated schedule on which the objectives will be met
  - •The funding available to the project, and the leadership arrangements within it
  - The extent to which the project is a CEPC-specific development

• Manpower resources available for the project, including type (student, faculty, engineer, etc) and FTE (question added by us)

2



中国科学院高能物理研究所

### PBS structure for our Detector R&D tasks

- I Vertex
- 2 Tracker
- 2.1 TPC
- 2.2 Silicon Tracker
- 2.3 Drift Chamber
- 3 Calorimeter
- 3.1 ECAL Calorimeter
- 3.2 HCAL Calorimeter
- 3.3 DR Calorimeter
- 4 Muon Detector
- 5 Solenoid
- 6 MDI
- 7 TDAQ
- 8 Software and Computing

R&D tasks to be created under these tasks

e.g. 3.1.1 Crystal Calorimeter



中国科学院高能物理研究所

### Projects from IDEA (F. Bedeschi)

- a. Silicon pixels for vertex detector
- b. Silicon detectors for large area trackers
- c. Cluster counting drift chamber
- d. Dual Readout calorimetry
- e. uRwell based pre-shower system
- f. uRwell based muon system



### Other tasks:

• 6 - MDI

中国科学院高能物理研究所

- IR design, radiation backgrounds, LumiCal,...
- Hongbo will provide details by end of the week



## Material to be provided

- Short text document with description above
  - Each document should have five parts
  - Word template can be provided
- Tables summarizing the full project
- Deadline:

中国科学院高能物理研究所

- Preliminary list by Friday (if not today)
- Preliminary documents by Monday
- Discussion: December 18
- (Keep in mind that International Committee is going on vacations before Christmas)