In Memory

David Vernon Bugg
(1935.7.16 - 2018.4.4)

Education： B.A. (1957), Ph.D. (1961), University of Cambridge
Position: Professor, Queen Mary University of London since 1970
Award: Rutherford Medal and Prize of the Institute of Physics, UK, 1996
for meson spectroscopy

Physics Letters B 323 (1994) 233–241
North-Holland

Observation of two $J^{PC} = 0^{++}$ isoscalar resonances at 1365 and 1520 MeV

Crystal Barrel Collaboration

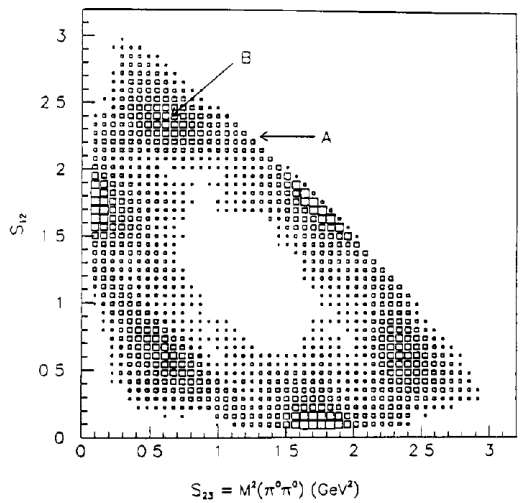


Fig 1 Dalitz plot for $\bar{p}p \to 3\pi^0$ at rest, from ref [2]

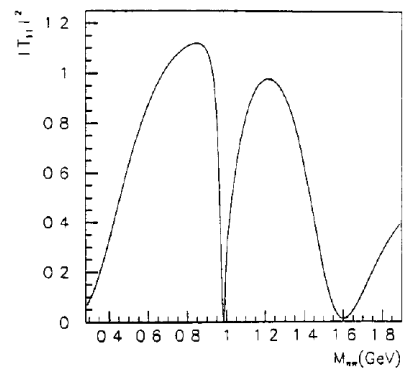


Fig 2 $|T_{11}|^2$, the $\pi\pi$ S-wave elastic scattering intensity

ELSEVIER Physics Letters B 353 (1995) 378–384

Further amplitude analysis of $J/\Psi \to \gamma(\pi^+\pi^-\pi^+\pi^-)$

D.V. Bugg [a], I. Scott [a], B.S. Zou [a], V.V. Anisovich [b], A.V. Sarantsev [b], T.H. Burnett [c], S. Sutlief [c]

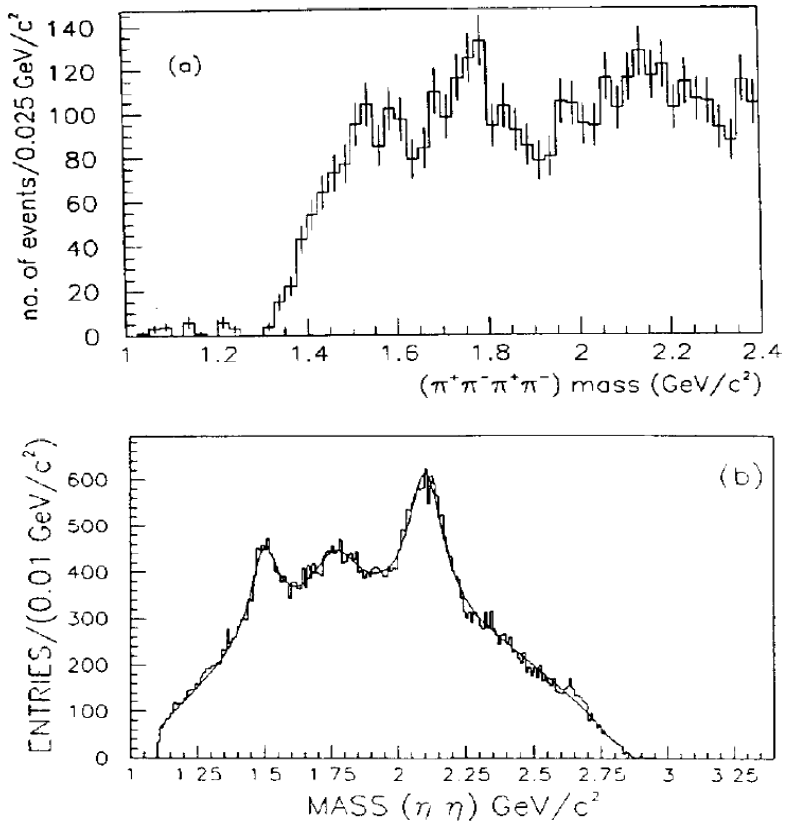
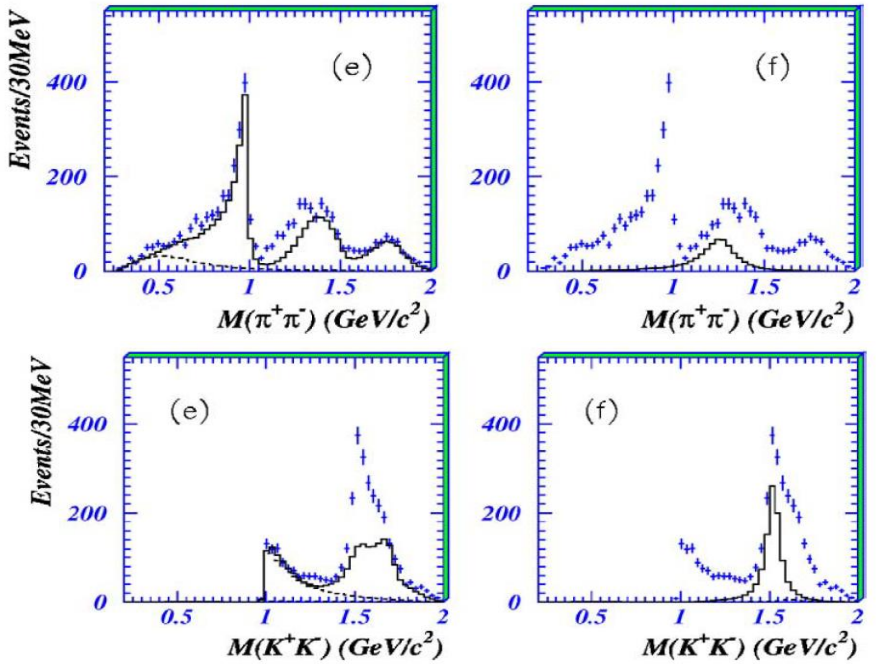
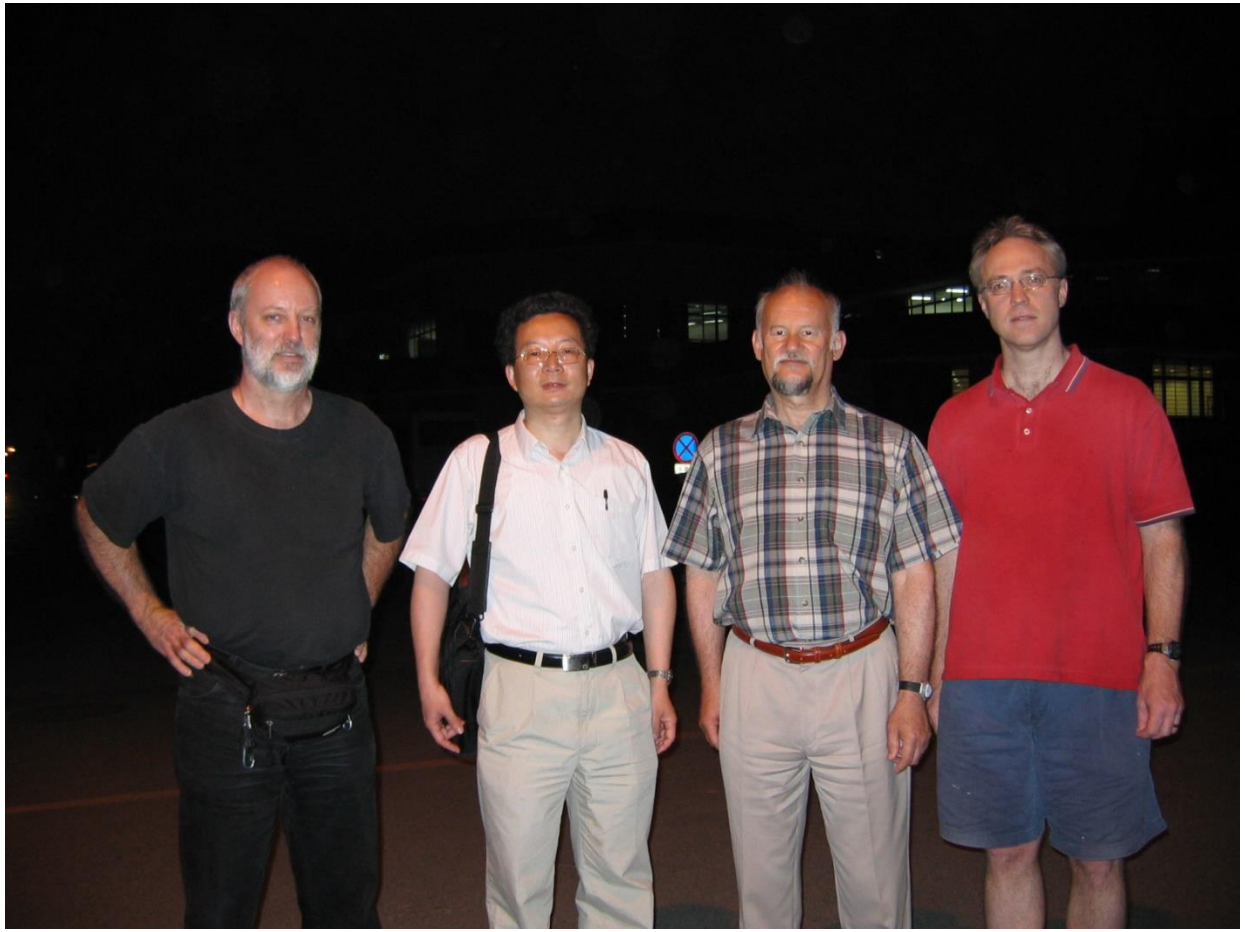
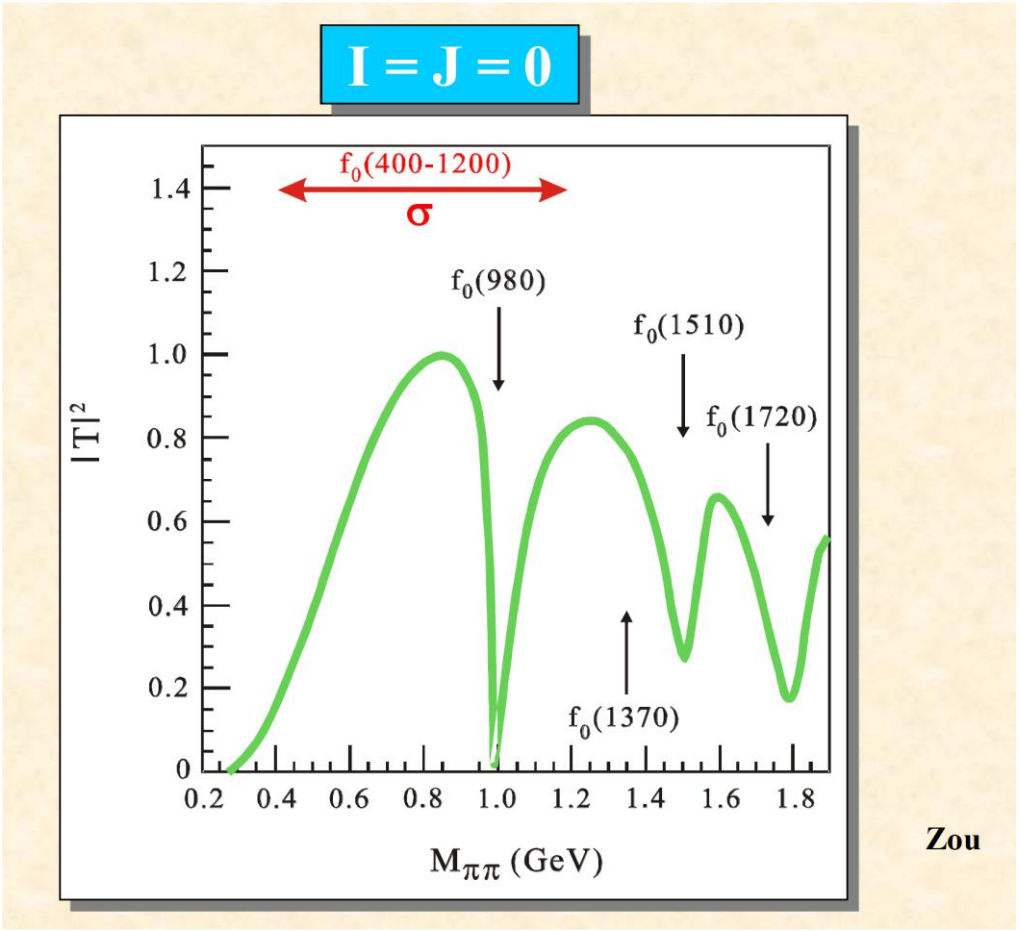


Fig. 1. (a) The 4π mass spectrum from Mark III data on $J/\Psi \to \gamma(4\pi)$, Ref. [7]; (b) The $\eta\eta$ mass spectrum from $\bar{p}p \to \eta\eta\pi^0$ at 3.0 GeV CM energy, Ref. [9].

In collaboration with BES:

"Partial wave analysis of J/ψ → $\gamma K^+K^-\pi^0$", Phys. Lett. B440 (1998) 217
"Partial wave analysis of J/ψ → $\gamma\eta\pi^+\pi^-$", Phys. Lett. B440 (1999) 217
"Partial wave analysis of J/ψ → $\gamma(K^+K^-\pi^+\pi^-)$", Phys. Lett. B472 (2000) 200
"Partial wave analysis of J/ψ → $\gamma(\pi^+\pi^-\pi^+\pi^-)$", Phys. Lett. B472 (2000) 208
"Partial wave analysis of J/ψ→$\gamma(K^+K_S\pi^-)$", Phys. Lett. B476 (2000) 25
"Partial Wave Analyses of J/ψ → γK^+K^- and $\gamma K_S K_S$", Phys. Rev. D68 (2003) 05200
"Partial wave analysis of J/ψ→ $\gamma\pi^+\pi^-$ and $\gamma\pi^0\pi^0$", Phys. Lett. B642 (2006) 441
"The σ pole in J/ψ→ $\omega\pi^+\pi^-$", Phys. Lett. B598 (2004) 149
"Study of J/ψ→ωK^+K^-", Phys. Lett. B603 (2004) 138
"Resonances in J/ψ→ $\phi\pi^+\pi^-$ and ϕK^+K^-", Phys. Lett. B607 (2005) 243



In Memory of Mike Pennington