

XVth Quark Confinement and the Hadron Spectrum



Contribution ID: 338

Type: Oral

Narrow Spectra in Heavy Quark Systems

Wednesday 21 August 2024 14:00 (30 minutes)

The status of narrow states in heavy quark systems is discussed. For states with only heavy valence quarks these are generally states without Zweig allowed decays. The special case of the $X(3872)$ is reexamined in light of new measurements.

For systems with heavy quarks plus light degrees of freedom three systems are discussed: (1) The $j=1/2$ $1P$ states of heavy-light mesons, (2) The stability of some ground state tetraquark systems, (3) For doubly heavy baryons (ccs, cbs, bbs) the lowest $1P$ states will be narrow.

Primary author: EICHTEN, Estia

Presenter: EICHTEN, Estia

Session Classification: Heavy Quarks

Track Classification: C: Heavy Quarks