



Contribution ID: 158

Type: **Poster presentation**

## Mass spectra of light-heavy tetraquarks

Thursday, 7 October 2021 18:35 (5 minutes)

We explore a semirelativistic model of tetraquarks  $[Qq\bar{Q}\bar{q}]$  ( $Q=b,c$  and  $q=u,d$ ), which are considered to be compact and composed of pairs of diquarks  $[Qq]$  and antidiquarks  $[\bar{Q}\bar{q}]$ .

The four-body problem is categorized into two-body problems by numerically solving the Schrödinger equation using a Cornell potential.

We compare some of the derived predictions for tetraquark masses to experimental tetraquark possibilities and find that  $\psi(4660)$ ,  $Z_b(10610)$ , and  $Z_b(10650)$  can all be explained by the model. The results will be presented at the conference.

### Is this abstract from experiment?

No

### Name of experiment and experimental site

NA

### Is the speaker for that presentation defined?

Yes

### Details

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### Internet talk

Yes

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**Session Classification:** Poster Session