



Contribution ID: 282

Type: Talk

## Investigation of the tetraquark candidate $a_0(980)$ : technical aspects.

*Wednesday, 25 June 2014 11:30 (20 minutes)*

The structure of the light-scalar meson  $a_0(980)$  is under debate. It might be of quark-antiquark, diquark-antidiquark or mesonic molecule type. We have implemented corresponding interpolating field operators composed of two and of four quarks, as well as operators of two-meson type, to study the structure of  $a_0(980)$ . The computation of the correlation matrix is rather challenging, because of e.g. closed fermion loops, quark propagation within a timeslice or disconnected pieces. To keep the statistical errors on an acceptable level, one needs to resort to different techniques for different entries and diagrams of the correlation matrix. Here we discuss these techniques in the context of first numerical results.

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**Session Classification:** Hadron spectroscopy and interaction

**Track Classification:** Hadron Spectroscopy and Interactions