



Contribution ID: 37

Type: **not specified**

Nature of $f_0(1370)$, $f_0(1500)$ and $f_0(1710)$ within the extended Linear Sigma Model

Thursday, 19 September 2013 15:30 (30 minutes)

Using the $U(3)_R \times U(3)_L$ extended Linear Sigma Model (eLSM) with ordinary mesonic degrees of freedom and glueballs we calculate decay widths in order to study their vacuum interactions at low energy and in particular the nature of the resonances $f_0(1370)$, $f_0(1500)$ and $f_0(1710)$. In this context the understanding of the mixing behaviour in the scalar-isoscalar sector is essential.

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Session Classification: Talks and Discussions