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Single and double Dalitz decays of pi^0, eta and eta' through rational approximants

Thursday, 2 July 2015 13:10 (1h 20m)

I will analyze the anomalous single and double Dalitz decays of the neutral pseudoscalar mesons, $P \rightarrow l+ \, l-$ γ and $P \rightarrow l+ \, l- \, l+ \, l-$ ($P = \pi$, η, η'; l= e or μ), employing a model-independent transition form factor (TFF) of the $P\gamma_*\gamma(*)$ vertices built up, through the use of rational approximants, from the current experimental data of the space-like TFF $\gamma_*\gamma \rightarrow P$. Predictions for the branching ratios and the spectra will be given and compared with present experimental status.

References
1. R. Escribano and S. Gonzalez-Solis, in preparation.
2. S. Gonzalez-Solis, P. Masjuan and P. Sanchez-Puerts in preparation.

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