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Single and double Dalitz decays of pi⁰, eta and eta' through rational approximants

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I will analyze the anomalous single and double Dalitz decays of the neutral pseudoscalar mesons, $P \to l + l - \gamma$ and $P \to l + l - l + l - (P = \pi$, 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 $\gamma*\gamma \to P$. 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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