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The $\tau - \longrightarrow \pi - \pi + \pi - \nu\tau$ decay and the a1 $\rho\pi$ - Lagrangian

Processes in which the a1 resonance either dominates ($\tau - \longrightarrow \pi - \pi + \pi - \nu\tau$, $K+ \longrightarrow \pi + l+ l-$, $e+ e- \longrightarrow 4\pi$) is supposed to play an important role (photon and dilepton production from a meson gas) are linked together using the meson dominance (MD) hypotestis. The mixing angle of a two-part a1 $\rho\pi$ - Lagrangian is first fixed together with the mass and width in the a1 propagator by fitting the observed three-pion mass spectrum in the $\tau - \longrightarrow \pi - \pi + \pi - \nu\tau$ decay.

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