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The puzzle of $\eta(1405)$ and $\eta(1475)$

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We raise the issue on the nature of the $\eta(1405)$ and $\eta(1475)$. We will show that so far there is no strong evidence for their being individual states. In particular, there exists a so-called “triangle singularity” mechanism which will alter the lineshape and shift the mass of a state $\eta(1440)$ in its decays into $K\bar{K}\pi$, $\eta\pi\pi$, and 3π .

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