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Y* resonances investigation in low-energy kaon-nuclei hadronic interactions

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The AMADEUS experiment deals with the investigation of the low-energy

kaon-nuclei hadronic interaction at the DAΦNE collider at LNF-INFN, which is fundamental to solve long-standing questions in the non-perturbative strangeness QCD sector. We analysed the 2004/2005 KLOE data, exploiting K^- absorptions in H, 4He , 9Be and ^{12}C , to extract for the first time the module of the non-resonant transition amplitude, below threshold, in the I=1, $\Lambda\pi^-$ channel. A similar analysis is presently ongoing for the $\Sigma^+\pi^-$ and $\Sigma^0\pi^0$ (purely I=0) channels in order to study the shape of the controversial $\Lambda(1405)$ state

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