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Phi-meson production on nuclei and in-medium phi-meson width

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The production of phi-mesons in collisions of 2.83 GeV protons with C, Cu, Ag and Au nuclear targets has been measured with the ANKE magnetic spectrometer at the Cooler Synchrotron COSY. The phi was detected at small angles via its $K+K^-$ decay branch. The measured target mass dependence of the production cross section can be related to the in-medium phi width. Comparisons with three model calculations suggest a significant broadening of this width relative to the vacuum value of 4.3 MeV. The ANKE results in the momentum range 0.6-1.6 GeV/c will be presented and compared with findings from other experiments.

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