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Proton resonance elastic scattering on 30Mg

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We measured an excitation function of the proton resonance elastic scattering on 30Mg of 2.92 MeV/nucleon to study the isobaric analog resonances of the low-lying bound states in 31Mg. We successfully observed several resonances. In this paper, we'll present the angular momenta and spectroscopic factors of the parent bound states in 31Mg obtained by the R-matrix analysis on the excitation function.

Primary author: IMAI, Nobuaki (High Energy Accelerator Research Organization (KEK))

Co-authors: Dr KAHL, Daid (Center for Nuclear Study, University of Tokyo); JOHANSSON, Hakan (Gesellschaft fuer Schwerionenforschung mbH (GSI)); AGHAI KHOZANI, Hossein (L); KURCEWICZ, Jan Pawel; CEDERKALL, Joakim (Lund University (SE)); MUKAI, Momo (High Energy Accelerator Research Organization (JP)); GOLUBEV, Pavel Ivanovich (Lund University (SE)); TERANISHI, Takashi (Kyushu University (JP)); WATANABE, Yutaka (High Energy Accelerator Research Organization (JP))

Presenter: IMAI, Nobuaki (High Energy Accelerator Research Organization (KEK))

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