

The Dibaryon resonance $d^*(2380)$ and other higher isospin states

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The Dibaryon resonance $d(2380)$ was measured in the two pion production reactions $pN \rightarrow d\pi\pi$ and by use of a polarized deuteron beam in the quasifree scattering mode on hydrogen target. Total and differential cross sections have been measured for the various isotopic final states. Covered energy region includes the regions of $N(1440)$ and $\Delta(1230)$ resonance excitations. Calculations using t-channel meson exchange differ from the experimental data. An isotensor ΔN Dibaryon $I(J^P)=2(1^+)$ state is able to compensate observed difference.

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