# $^{181}$Hg εp decay 1972Ho18

History

| Type | Author | Citation | Literature Cutoff Date |
|---|---|---|---|
| Full Evaluation | E. A. Mccutchan | NDS 126, 151 (2015) | 1-Feb-2015 |

Parent: $^{181}$Hg: E=0.0; $J^\pi=1/2^-$; $T_{1/2}$=3.6 s *1*; Q(εp)=6485 *19*; %εp decay=0.013 *3*

$^{181}$Hg activity from Pb(p,3pxn), E(p)=600 MeV. Reaction products separated with the ISOLDE electromagnetic isotope separator. Measured Eγ, Iγ, Ep, Ip, p-γ using two Si detectors and a NaI(Tl) detector.

## $^{180}$Pt Levels

| E(level) | $J^\pi$ |
|---|---|
| 0.0 | $0^+$ |
| 150 *15* | $2^+$ |
| 470? | $4^+$ |

## γ($^{180}$Pt)

| $E_\gamma$ | $E_i$(level) | $J_i^\pi$ | $E_f$ | $J_f^\pi$ |
|---|---|---|---|---|
| 150 *15* | 150 | $2^+$ | 0.0 | $0^+$ |

## Delayed Protons ($^{180}$Pt)

| E($^{180}$Pt) | I(p)[†] | Comments |
|---|---|---|
| 0.0 | 50 *10* | |
| 150 | 50 *10* | |
| 470? | <6 | I(p): limit based on number of counts in expected 310 keV region of γ spectrum. |

[†] For absolute intensity per 100 decays, multiply by $1.3\times10^{-4}$ *3*.

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Decay Scheme