

WWW Table of Nuclear Structure

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The new WWW Table of Nuclear Structure website is now available at <http://ie.lbl.gov/TOI2003/index.asp>. This service provides searchable access to the Evaluated Nuclear Structure Data File (ENSDF)¹ by adopted level, gamma, and rotational band properties. ENSDF Adopted Level, Gamma datasets have been stored in a Microsoft Access database, and the connection between the database and the Web server is Open DataBase Connectivity (ODBC). Output pages can be produced in a flexible way (high data awareness) by means of Active Server Pages (ASP). This project was supported, in part, by EVTEC, Finland as part of a student internship program.

Figure 1 shows the level scheme ladder drawing resulting from a search for levels in Erbium with A=156 to 160 and possible spin assignment of 2+. The data are displayed as an HTML format level scheme. Gamma rays can be displayed by clicking on the γ symbol in the level scheme drawing, as shown in Figure 2. Tabular displays are also supported.

¹Evaluated Nuclear Structure Data File (ENSDF) - a computer file of evaluated experimental nuclear structure data maintained by the National Nuclear Data Center, Brookhaven National Laboratory (file as of August, 2003).

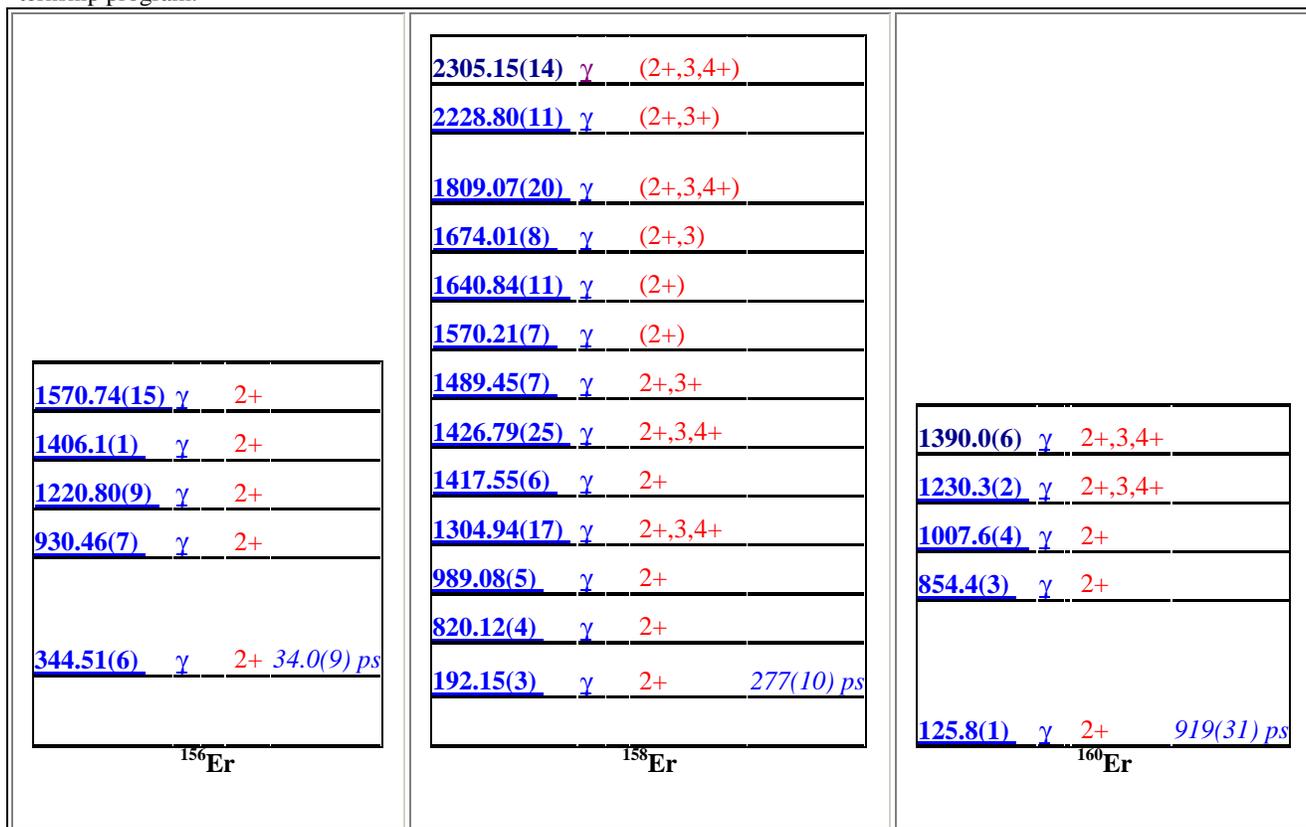


Figure 1. HTML level scheme drawing from the WWW Table of Nuclear Structure

<u>E_g</u>	<u>I_g</u>	<u>Multipolarity</u>	<u>d</u>	<u>BW1</u>	<u>BW2</u>	<u>ICC</u>	<u>TI</u>	<u>EL_r</u>	<u>JPI_r</u>
344.55(7)	100	E2		65.7(18)		0.0460	100	0	0+

Figure 2. Gamma-Rays deexciting the 344.51(6), 2 Level in ¹⁵⁶Er