
Subject: Re: Bear Smear and Cross Sections

Posted by [Michael Kunkel](#) on Mon, 06 Aug 2012 18:26:56 GMT

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So unfortunately, the best cross section available data available for $g p \rightarrow p \eta$ was done in bins of $\cos(\theta)$ c.m.

and the elementary plugin appears to be done in total cross section.

Would it be possible to have a plugin available in which the user can input the differential cross section data, and have PLUTO work with that?

i.e.

B_min	B_Max	W_min	W_max	x_min	x_max	x_mean	y_min	y_max	y_mean
1.03491	1.05287	1.68	1.69	-0.85	-0.9	-0.8	0.1899	0.1464	0.2334
1.03491	1.05287	1.68	1.69	-0.75	-0.8	-0.7	0.2513	0.2244	0.2782
1.03491	1.05287	1.68	1.69	-0.65	-0.7	-0.6	0.2672	0.2486	0.2858
1.03491	1.05287	1.68	1.69	-0.55	-0.6	-0.5	0.2554	0.2407	0.2701
1.03491	1.05287	1.68	1.69	-0.45	-0.5	-0.4	0.2654	0.2511	0.2797
1.03491	1.05287	1.68	1.69	-0.35	-0.4	-0.3	0.2587	0.2465	0.2709
1.03491	1.05287	1.68	1.69	-0.25	-0.3	-0.2	0.29	0.2769	0.3031
1.03491	1.05287	1.68	1.69	-0.15	-0.2	-0.1	0.284	0.2712	0.2968
1.03491	1.05287	1.68	1.69	-0.05	-0.1	0	0.2828	0.2699	0.2957
1.03491	1.05287	1.68	1.69	0.05	0	0.1	0.2699	0.2572	0.2826
1.03491	1.05287	1.68	1.69	0.15	0.1	0.2	0.3017	0.2867	0.3167
1.03491	1.05287	1.68	1.69	0.25	0.2	0.3	0.2812	0.264	0.2984
1.03491	1.05287	1.68	1.69	0.35	0.3	0.4	0.236	0.2233	0.2487
1.03491	1.05287	1.68	1.69	0.45	0.4	0.5	0.2449	0.2297	0.2601
1.03491	1.05287	1.68	1.69	0.55	0.5	0.6	0.2633	0.2455	0.2811
1.03491	1.05287	1.68	1.69	0.65	0.6	0.7	0.2439	0.2221	0.2657

where x_{mean} is the $\cos(\theta)$ c.m. and y_{mean} is the cross section
