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DATE: May 28, 1987  
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FROM: V. McLane *VM*  
SUBJECT: Spin-spin Cross Section

We have an experimental paper containing data on spin-spin cross sections (PRL, 57, 2371, 86).

The spin-spin cross section is defined as:

$$\sigma_{ss} = (\sigma_p - \sigma_a) / 2$$

where  $\sigma_p$  = cross section for neutron and target spins parallel

$\sigma_a$  = cross section for neutron and target spins antiparallel

We propose a new modifier SS to be added to Dictionary 34, and the above definition to be entered in LEXFOR under Polarization.

*Charles L. Dunford*  
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