HÖNL-LONDON FACTORS FOR MULTIPLET TRANSITIONS IN HUND'S CASE a OR b.

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Hönl-London factors are the factors that give the dependence of spectroscopic line intensities on the rotational quantum numbers. Recently[a] it has been shown that many tabulations of Hönl-London factors for singlet-singlet transitions do not allow for the special cases of $\Pi - \Sigma$ and $\Sigma - \Pi$ transitions, where a consideration of the parity symmetrisation shows that an extra factor of 2 is required. The present work extends these considerations to multiplet transitions, in either pure Hund's case a or pure Hund's case b.

[a] A. Hansson and J. K. G. Watson, J. Mol. Spectrosc. 233 (2005) 169