

spin projection

A component, M_S , of the angular spin moment S along an arbitrary axis (usually chosen as the z-direction). M_S can take the values between $-S$ and S : $-S, -S + 1, \dots, S - 1, S$. The term is also used to denote an operation (spin-symmetry projection) allowing one to eliminate spin contamination in the cases where wavefunctions are not eigenfunctions of the operator S^2 .

Source:

PAC, 1999, 71, 1919 (*Glossary of terms used in theoretical organic chemistry*) on page 1963