**Stokes parameters**

Of elliptically polarized incident radiation, these are given by

\[ s_0^0 = E_1^0 + E_2^0 \]
\[ s_1^0 = E_1^0 - E_2^0 \]
\[ s_2^0 = 2 \sqrt{E_1^0 E_2^0} \cos \delta^0 \]
\[ s_3^0 = 2 \sqrt{E_1^0 E_2^0} \sin \delta^0 \]

where \( E_1^0 \) and \( E_2^0 \) specify the irradiances of the incident light polarized with their electric vectors vibrating perpendicular and parallel to the scattering, respectively and \( \delta^0 \) is the phase difference between these electric vectors.

**See also:** scattering matrix

**Source:**
PAC, 1983, 55, 931 (*Definitions, terminology and symbols in colloid and surface chemistry. Part 1.14: Light scattering (Provisional)*) on page 933