Polarization observables - a simple example, Σ

$$\rho_f \frac{d\sigma}{d\Omega} = \frac{1}{2}\left(\frac{d\sigma}{d\Omega}\right)_{unpol}\{1 - P_\gamma^{lin}\Sigma\cos 2\phi + P_x(P_\gamma^{circ}F + P_\gamma^{lin}H\sin 2\phi)$$
$$+ P_y(T - P_\gamma^{lin}P\cos 2\phi) + P_z(P_\gamma^{circ}E + P_\gamma^{lin}G\sin 2\phi)$$
$$+ \sigma'_x[P_\gamma^{circ}C_x + P_\gamma^{lin}O_x\sin 2\phi + P_x(T_x - P_\gamma^{lin}L_z\cos 2\phi)$$
$$+ P_y(P_\gamma^{lin}C_z\sin 2\phi - P_\gamma^{circ}O_z) + P_z(L_x + P_\gamma^{lin}T_z\cos 2\phi]$$
$$+ \sigma'_y[P + P_\gamma^{lin}T\cos 2\phi + P_x(P_\gamma^{circ}G - P_\gamma^{lin}E\sin 2\phi)$$
$$+ P_y(\Sigma - P_\gamma^{lin}\cos 2\phi) + P_z(P_\gamma^{lin}F\sin 2\phi + P_\gamma^{circ}H)]$$
$$+ \sigma'_z[P_\gamma^{circ}C_z + P_\gamma^{lin}O_z\sin 2\phi + P_x(T_z + P_\gamma^{lin}L_x\cos 2\phi)$$
$$+ P_y(-P_\gamma^{lin}C_x\sin 2\phi - P_\gamma^{circ}O_z) + P_z(L_z + P_\gamma^{lin}T_x\cos 2\phi)]\}$$

- **circled signs are incorrect; those terms should be multiplied by (-1);**
- **O_z term in the last line should be O_x**