

## Notes on extracting polarization observables

- 11-14-13
  - Formalism

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### Formalism

$$\left(\frac{d\sigma}{dX^{ij}d\phi^j}\right)^h \doteq f^h(X^{ij}, \phi^j) = A^{ij} + B^{ij} \cos \phi^j + C^{ij} \cos 2\phi^j + hPD^{ij} \sin \phi^j$$

where

- ij = index over Varset, Variable (3x5 matrix)
- $R2_{\alpha}^{ij} \doteq [A^{ij}, B^{ij}, C^{ij}, D^{ij}] \equiv [R_T + \epsilon_L R_L, R_{LT}, R_{TT}, R_{LT'}]$ 
  - $R2_{\alpha}^{ij} = f(Q^2, W, X^{ij})$

### Event Selection

#### Matters relating to current Observations

1. What do R2 from Simulation Data (SF) represent?
  - Study in comparison with Hole-Filled Experimental Data (EF)
  - Therefore, is Hole-Filling valid?
2. R2 from Acceptance Corrected Experimental Data (EC)

This is a normal paragraph:

This is also

This is a code block

Use printf