Twinning tests: correlated structure factors

- OD twin: twin axis | | NCS axis
- Twin-related structure factors of an individual crystal correlate
- The model of random atoms is not valid.

Partial twinning test (H-test)

the apparent twinning fraction is higher for correlated s.f.

 $\alpha = 0.0$ $\alpha = 0.2$ 0.5 0.0

Red: correlation = 0 (conventional references)

Magenta: intermediate correlations

Blue: correlation = 0.99 (higher point group)

Perfect twinning test (cumulative distribution of Z)

the apparent twinning fraction is lower for correlated s.f.

