Wiggler Field Calculations

– 7-Pole Integral Compared to Kick –
– Complete Transfer Function Comparison –

1. **7-Pole linear integral of B_Y**
   - X dependence smaller for 1.9 T peak field
   - Trim current can reduce X dependence for 2.1 T peak field
     ⇒ But such a trim current induces a big kick at $x = 0$!
2. **Complete comparison of transfer functions at 1.7 T, 1.9 T and 2.1 T**
   - First look at 8-pole 2.1 T (was 2.3 T in previous comparisons)
     ⇒ Sufficient criteria to determine which magnet is best ?