Update of 8-Pole Wiggler Design
and
First Model of Single-Pole Test Setup

1. **Update of 8-Pole Wiggler Design**
   - Use most recent coil design (c.f. Bill Trask)
   - Calculation done for 2.1 T peak field

     ⇒ Main Coil: 30 layers of 22 wires each (supply current 144 A)

     ⇒ End pole – main coil: 16 layers of 22 wires each

     ⇒ End pole – trim coil: 30 layers of 38 wires each (supply current 0.9 A)
   - Transfer functions show quality equal to that of previous 8-pole calculation

2. **Model for Single-Pole Test Setup**
   - Two 20-cm poles back to back
   - Coil design as for present 7-pole prototype
   - 161 A gives 6 kG peak field at position of beam
   - Picture and field plots available at

     `http://www.lns.cornell.edu/~critten/wigglerfields/sp`