

## **Crystal-Particle Interactions subgroup**

Noble, Spencer, Seryi, Stupakov, Taratin, Smirnov, Silari,  
UNM collaborator Jim Ellison (others are welcome to join us!)

### Activities which I am aware of today:

1. Improve nuclear interactions in Igor Yazynin's fast channeling code; output 6-d phase space files from the code for Tracking group studies. (Spencer and Noble)
2. Analysis of multi-reflections in single crystal, beam halo generation (Taratin)
3. Study generality of VR average and rms angle formulas in Igor's code as function of energy and curvature radius using simplified continuum model (Noble and Ellison)
4. VR radiation studies for  $e^+$ ,  $e^-$  (and  $p$  radiation at LHC?) using simple wiggler radiation model (Noble, Stupakov, Spencer, Seryi)