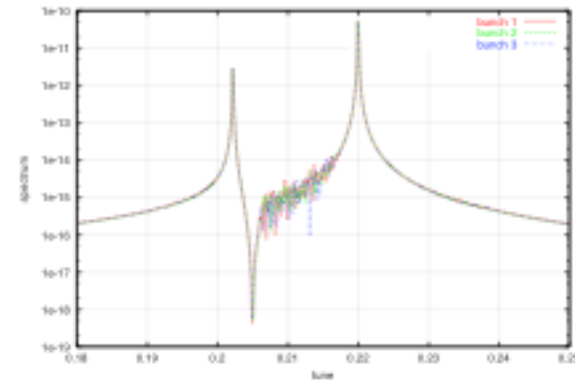
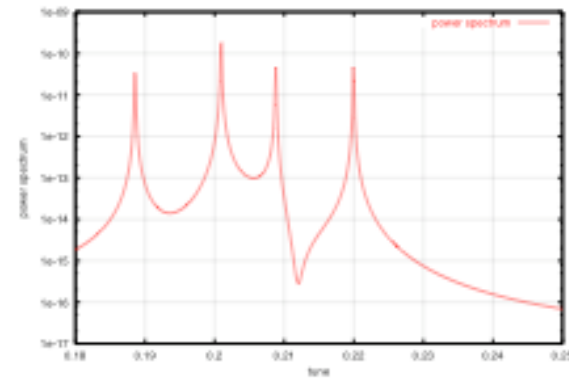
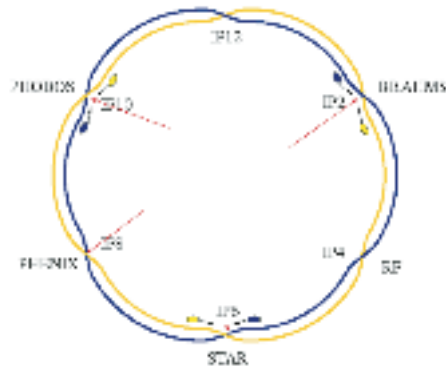


Ji RHIC S-S b-b simulations



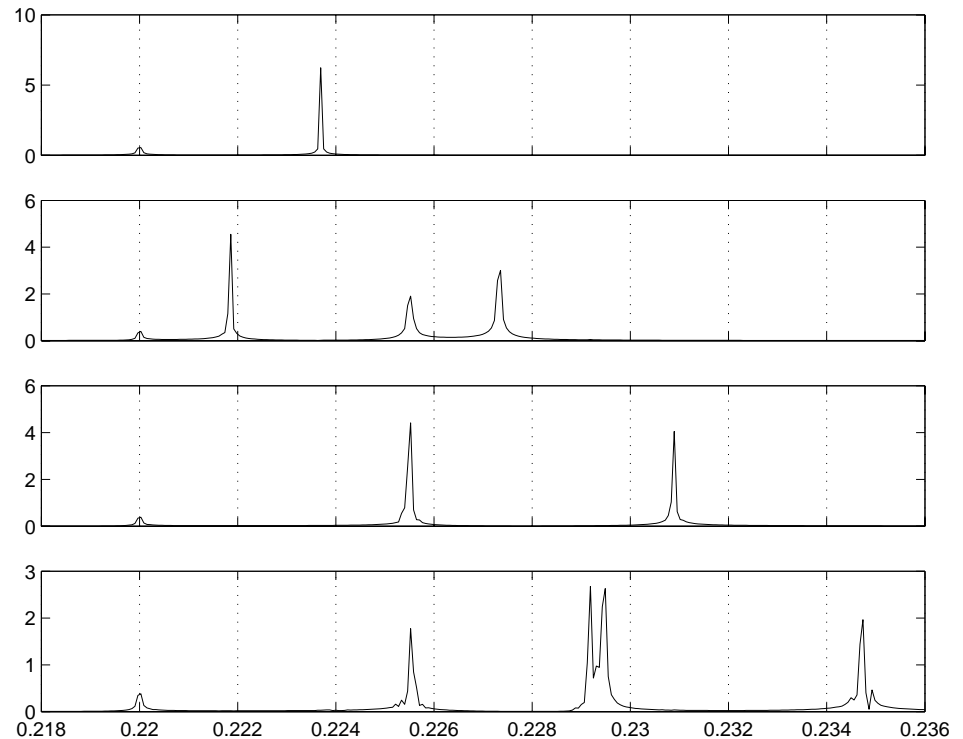
- Rigid bunch model tune shift = $8 X_i$
- Soft Gaussian bunch model shift of = $4 * Y * X_i$

Combi with Rigid bunch Model

Combi with RHIC parameters runned for different collision schemes as in the matrix formalism: 1, 2 3 and 4 HO collisions

Tune shift proportional to X_i and the number of head on collisions

- 1 X_i
- 2 X_i
- 3 X_i
- 4 X_i



Matrix Formalism

Semi analytic solution of RHIC one turn matrix with linearized beam beam force for different collision schemes: 1, 2 3 and 4 HO collisions

Tune shift proportional to X_i and the number of head on collisions

- 1 X_i
- 2 X_i
- 3 X_i
- 4 X_i

