

# Plans and Topics for the meeting.

## Beam Dynamics of Circular Accelerators – Mainly PETRA III

- Past meetings
- List of Topics from Dec. 2011
- Plans

Discussion

DESY

Hamburg, Mar 2, 2012

## > Dec 16, 2011

- Topics
- Data from Archive, QF, QD
- Bump NOL, Studies

## > Jan 20, 2012

- Betatron Coupling studies

## > Feb 03, 2012

- PETRA III: Coupling - Studies Dec. 2011 and Simulations
- Emittanz und Kopplung
- Ecloud Studies with different bunch filling patterns

## > Feb 17, 2012

- Betatron Coupling MADx Simulations

# Topics

List from Dec 2010 with contributions from MB, AK, GS, RW

- > **Optic, Tunes**, Chromaticity
- > Tune scans, injection eff. (0.3 ...0.7), horz. emittance
- > **Eclouds, Filling Patterns, Bonus-Lines**
- > **Coupling, Emittance**
- > Heating of the bellow in the new octant
- > **RF-Systems, HOMs, vacuum events**
- > Impedance in vac undulator
- > **Vertical bump, Flash II**
- > Impulse acceptance, sextupole settings
- > Nonlinear optics, frequency maps
- > 40 bunches, extra lines in the tune spectrum
- > Tune bump in the east
- > MATLAB tools for studies



# Plans

- > Is this meeting useful ?
- > Are we focussed ?
- > Could we find answers ?
  - Upper side bands / eclouds      NO
  - Emittance / coupling              some progress
- > Collision with technical Meeting (this Friday)
- > Shall we continue ?
- > Who would like to contribute to the next meetings ?
  
- > Any Feedback is welcome !

