

# My view of KURR-FFAG collaboration

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## At FFAG 11

- We discussed “beyond EMMA” at FFAG 11 in Oxford in September 2011.
- Two directions
  - Proposal of new FFAG design and construction.
  - Beam experiment in existing FFAGs.

# KURRI-FFAG

- ERIT FFAG
  - Neutron source of BNCT
  - 11 MeV proton storage ring
- ADSR FFAGs
  - Proton driver for ADSR test bench
  - 2.5 – 20 – 150 MeV cascade proton FFAG
- They are all scaling FFAGs.

# Possible study subjects

- Space charge effects in FFAG
  - Can be different from a synchrotron because of intrinsic nonlinearity.
  - Image charge/current should be more important because a beam does not go through the centre of beam pipe.
- Ionization cooling
  - Already demonstrated, but may need more study.
- Open to any idea/proposal

# Organization

- Convener in each region

Carol Johnstone      North America

Chris Prior            Europe

Yoshi Mori             Asia

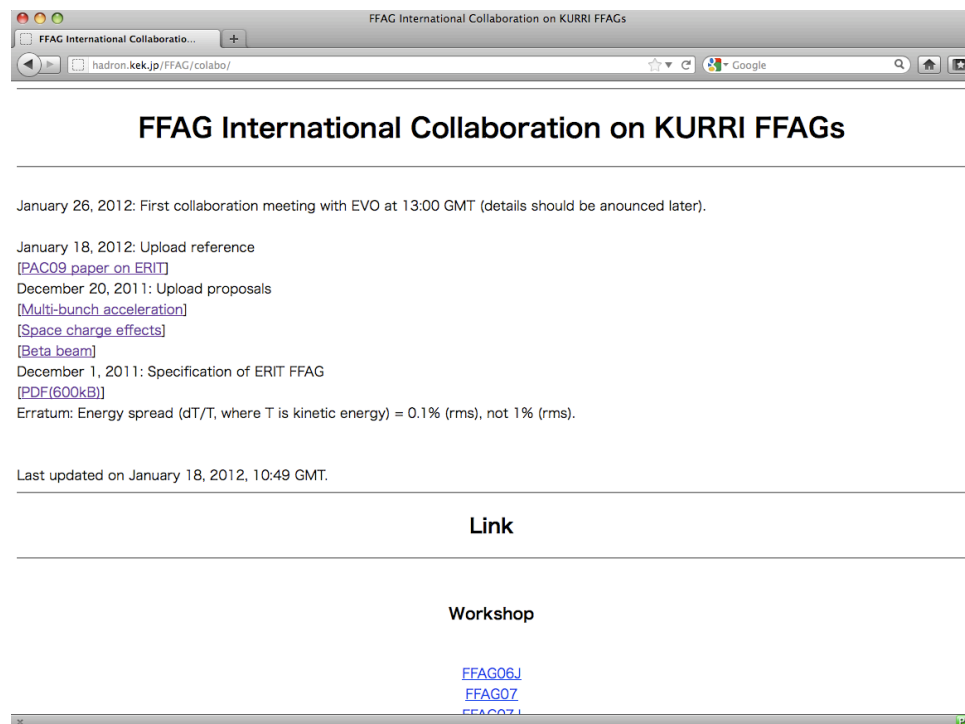
- Secretary

Shinji Machida

# So far (1)

- Set up Web page

<http://hadron.kek.jp/FFAG/colabo/>



## So far (2)

- Proposals by volunteers (on the web)
  - Space charge experiment
  - Multi-bunch acceleration
  - Beta beam
- Already identified technical issues
  - Emittance growth by foil scattering as well as space charge.
  - ...

# Collaboration meeting today

- Let us start!
- No technical discussion today, but do it in the 2<sup>nd</sup> meeting in three weeks time (16 February) ?
- Agenda today is
  - Feedback from the FFAG community.
  - How often we have a meeting?
  - Any way to secure funding for travel to Japan (no formal funding at the moment)?
  - I assume that this meeting is going to be similar to the EMMA one by Rob in early days. Namely, presenting calculation/simulation whoever interested in the project.



# Side issue

## Meeting time

13:00 GMT	22:00 in Japan, 8:00 in NY, 7:00 in Chicago, 5:00 in Vancouver
6:00 GMT	15:00 in Japan, 1:00 in NY, 0:00 in Chicago, 22:00 in Vancouver
22:00 GMT	7:00 in Japan, 17:00 in NY, 16:00 in Chicago, 14:00 in Vancouver