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E-JADE Mid-Term Review

ILC background studies at

ATF & the University of Tokyo

March - April 2016

Anne Schütz / WP 2, 3

E-JADE is a Marie Skłodowska-Curie Research and Innovation Staff Exchange (RISE) action, funded by the EU under Horizon2020



Me

- Ph.D. at Desy, Hamburg
- Associated with KIT, Karlsruhe
- Ph.D. topic:

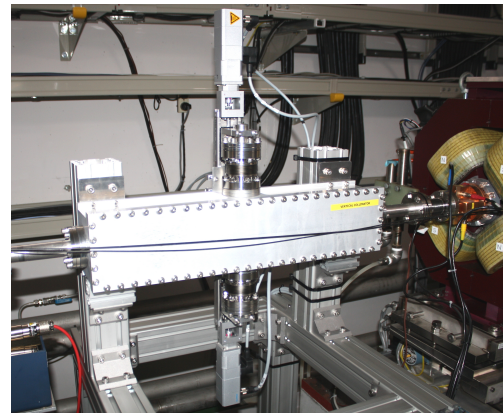
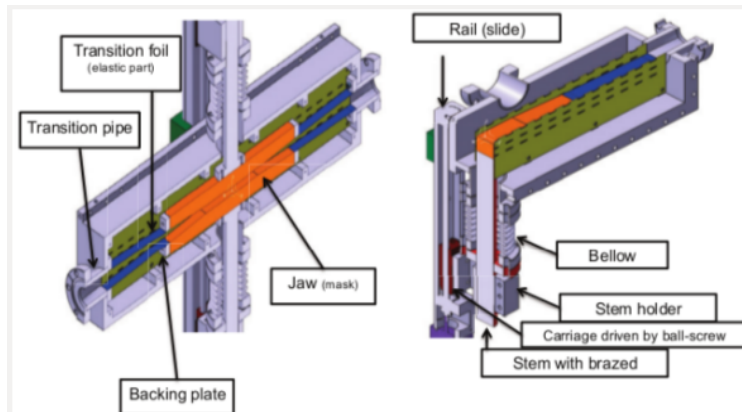
Simulation of the ILC machine background
wrt a possible optimization of the final-focus region

- E-JADE working group WP 2/3
 - Practical experience in secondment in Japan:
3 ½ weeks at KEK to join the ATF beam time in March
5 weeks at the University of Tokyo
-
- 8 ½ weeks of fun in Japan!**
- Further E-JADE secondment to Japan: 1 week in 2015



Project at ATF2

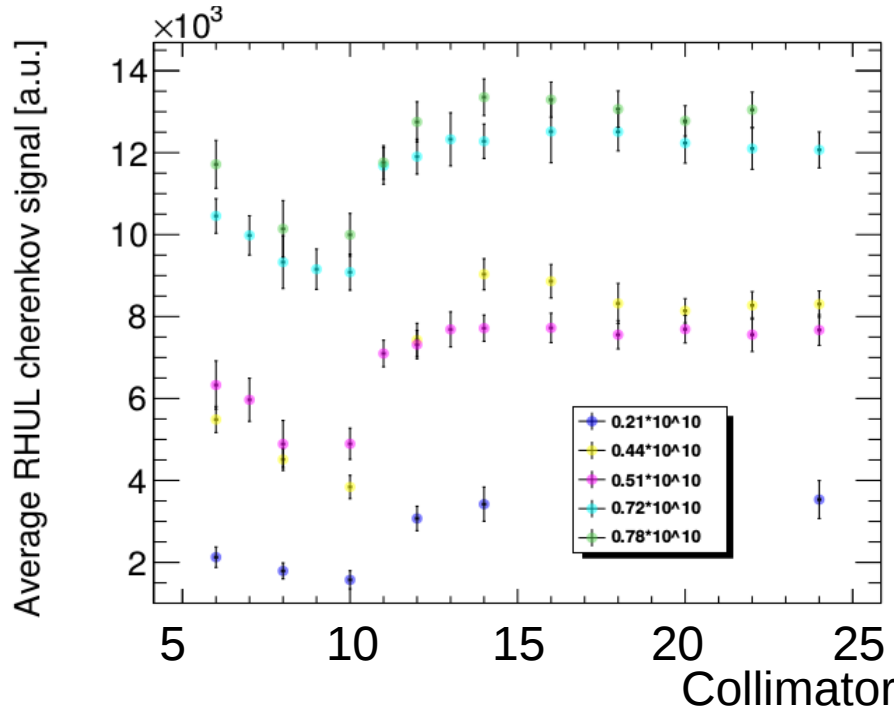
Testing the performance of a recently installed vertical beam halo collimator [Nuria Fuster Martinez (IFIC) et al.]:



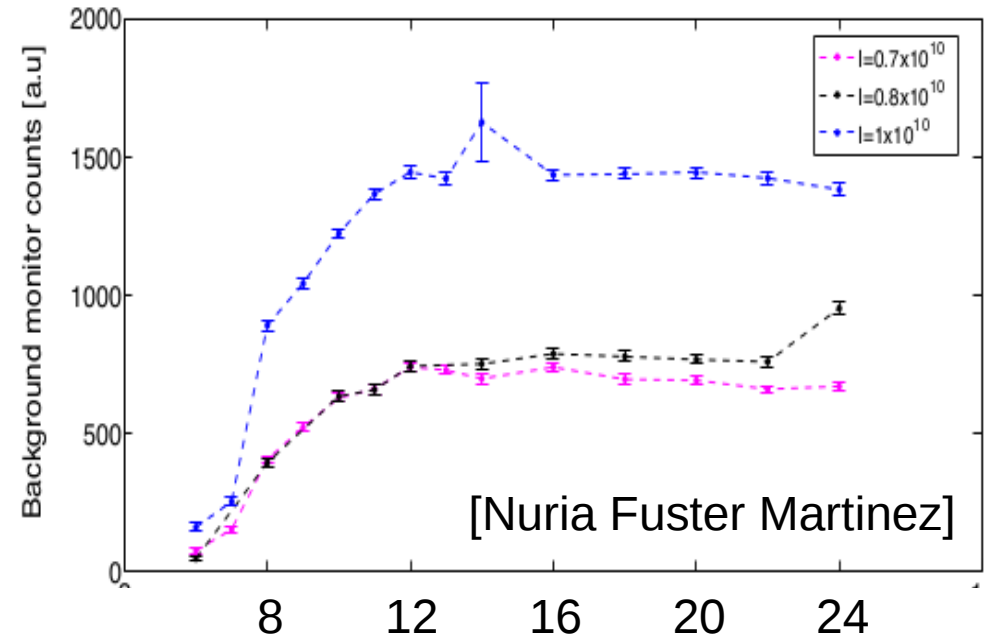
- Participation in the ATF2 beam operation time, operation of the ATF beam
- Measuring the background production/overall-reduction with respect to the collimator apertures
- Analysing the data whilst being in the working group of Sachio Komamiya-san in the Particle Physics Department of the University of Tokyo

Project at ATF2 – Results and goals

Cherenkov detector close to collimator



Background monitor at IP



[Nuria Fuster Martinez]

Goals:

- Simulation of ATF2 and the effect of the beam halo collimator with BDSIM [RHUL]
- Paper about the vertical beam halo collimator with results from beam time at ATF

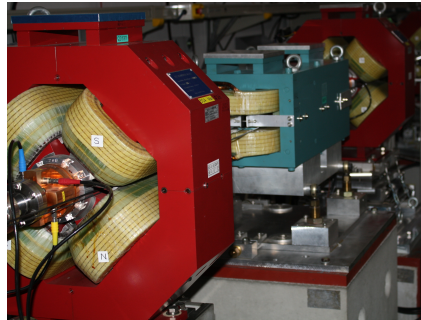
(See talk by Nuria in the ATF session on Wednesday at 11 a.m.!)

E-JADE outcomes

- Upcoming paper about results of the vertical beam halo collimator studies at ATF at KEK
- Talk at MDI workshop at KEK in March 2016 (“Second Workshop on ILC Infrastructures and CFS for Physics and Detectors”)
- Several talks in the ATF operation meetings and the group meeting in Komamiya-lab
- Better understanding of Japanese culture
- Next secondment hopefully in fall 2016

Gained experience and new friends

- ATF is an international collaboration: people from Japan, America, UK, Spain, France, China, ...



- Working group of Komamiya-san (University of Tokyo): Master and Ph.D. students from Japan, post-docs and researchers from Japan, China and Europe



Gained experience and new friends

- Japanese language courses: evening classes in Hamburg and COTO language academy in Tokyo
- Trips to several places:

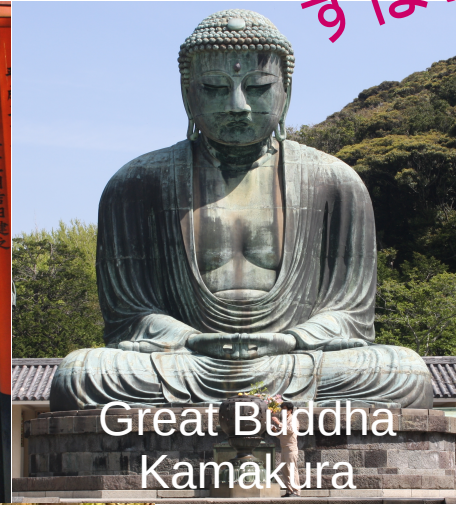
すばらしい!!!



Snow Monkey Park, Nagano



Fushimi inari Kyoto



Great Buddha Kamakura



Ueno park Tokyo

- Pen pal:
Yuichiro Tabaru
met on the train to Nikko



かぞく

私は日本語を勉強します。

こうえん

かそくき

すし

日本

Backup

ともだち

... すきです

だいがく

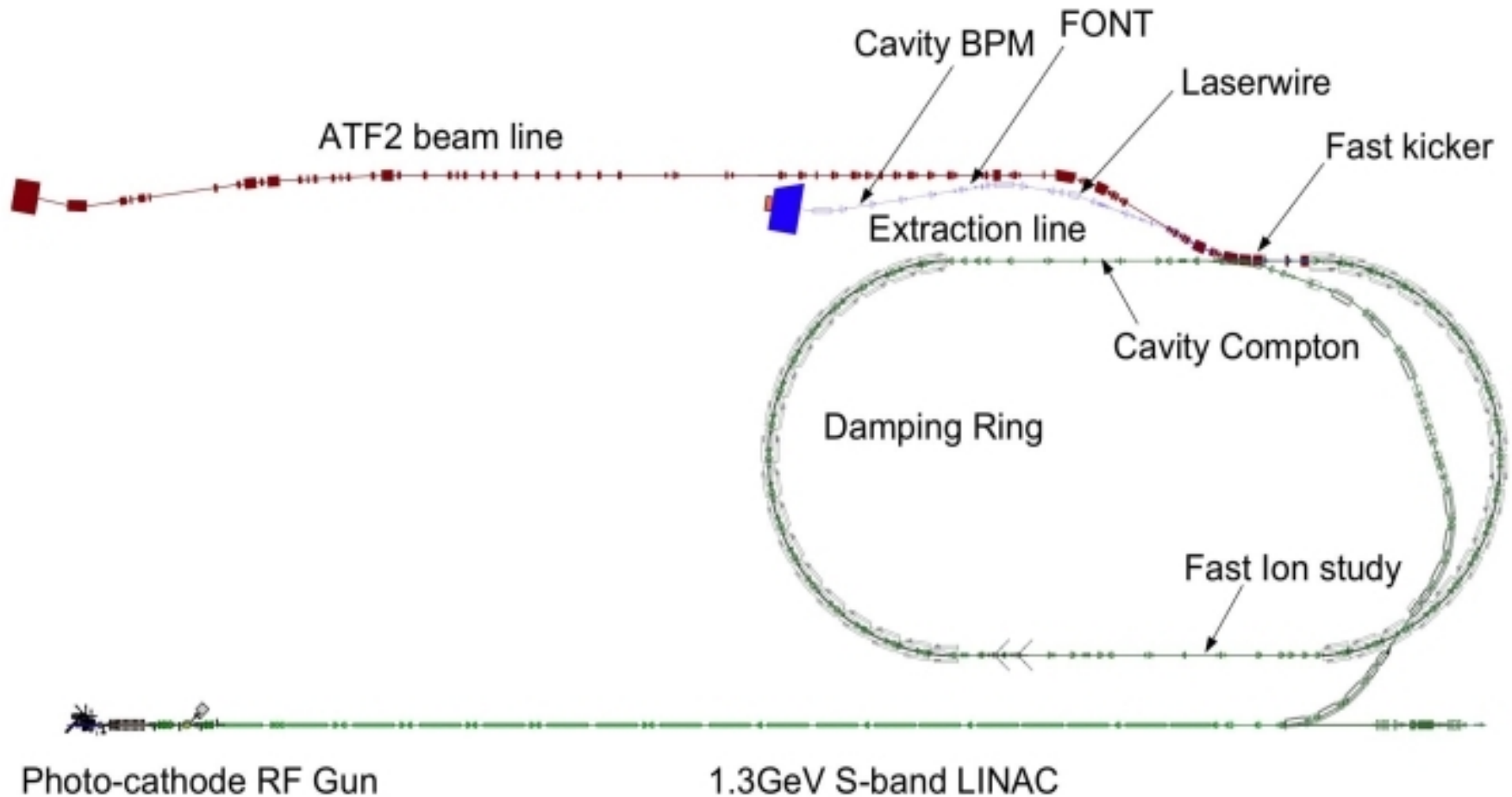
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Gained experience and new friends



Project at ATF2

The vertical beam halo collimator is installed in the ATF2 extraction line:



Project at ATF2

The vertical beam halo collimator is installed in the ATF2 extraction line:

