

# Beam Commissioning Of The Kek Digital Accelerator

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### Beam Commissioning Of The Kek

The early beam commissioning of the KEK digital accelerator, which consists of novel accelerator components such as a permanent magnet x -band ECRIS, an Einzel lens longitudinal chopper, an electrostatic injection kicker, and induction acceleration devices, is reported here . Performance of the Einzel lens longitudinal

### KEK Digital Accelerator and Recent Beam Commissioning Result

before the injected beam pulse completes a single turn in the DA ring, which is a rapid-cycle synchrotron. The injected beam is captured with a pair of barrier voltage pulses and accelerated with pulse voltages, the pulse length and amplitude of which are controlled in digital. He<sup>1+</sup> ions beam commissioning in the KEK-DA is described here. MACHINE

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## **KEK Digital Accelerator and its Beam Commissioning**

The Phase 1 commissioning of SuperKEKB rings with-out superconducting final focus magnets or Belle-II detector began in Feb., 2016. A total of 1010 mA (LER) and 870 mA (HER) stored beam has been achieved close to the design emittance and x-y coupling. Most of the beam diagnostics, including new systems such as gated turn-by-turn

## **Beam Commissioning of SuperKEKB Rings at Phase 1**

KEK Digital Accelerator and . Its Beam Commissioning. Ken Takayama . High Energy Accelerator Research Organization (KEK) Tokyo Institute of Technology. on behalf of. KEK Digital Accelerator ...

## **KEK Digital Accelerator and Its Beam Commissioning**

installed at KEK, and the beam test has been performed successfully from April to July 2002, and January to February 2003. Between these two series of experiments, slight modification of the LEBT (Low Energy Beam Transport) was performed to install a pre-chopper cavity. These beam tests aim to verify the performance of key components of the MEBT.

## **Beam Commissioning of the J-PARC Linac Medium Energy Beam ...**

SuperKEKB Beam Instrumentation Commissioning Strong transverse coupled-bunch instability has been observed in both rings even with fairly low stored current at very early stage of the commissioning. -LER : Both H and V instability, V was much stronger and limited the stored current in the beginning. -HER : Both H and V.

## **Beam Commissioning of SuperKEKB Rings at Phase 1**

beam commissioning, the maximum voltage was 1.55MV for HER and 0.98MV for LER at the typical beam energy. Breakdown of Piezo Actuator During the beam commissioning, Piezo actuator broke

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down frequently and was exchanged for the new one. Figure 4 shows a set of Piezo actuator and load sensor (left), and the situation after the breakdown (right). The

### **Beam Commissioning Status of Superconducting Crab ... - KEK**

BEAM COMMISSIONING OF J-PARC MR T. Koseki # and J-PARC MR group, J-PARC Center, KEK and JAEA, Tokai, Ibaraki, Japan Abstract Beam commissioning of the J-PARC main ring synchrotron (MR) has started in May 2008. 3-GeV beam extracted from the rapid cycling synchrotron (RCS) is injected into the MR and circulated with rf capture, and

### **Beam Commissioning of J-PARC MR - CERN**

- Establish beam operation software tools
- Preparation for installation of Belle-II detector - Enough vacuum scrubbing
- Request from Belle -II group: ~1 month vacuum scrubbing with beam current of 05~1A (360~720Ah).
- Beam background study with test detector (named Beast)
- Optics study w/o IR (no detector solenoid)

### **Beam Commissioning of SuperKEKB**

In compact ERL (cERL), which is a test accelerator to develop key technologies for ERL, the generation of low emittance electron beam with 0.1 mm mrad normalized emit-tance and 390 keV beam energy ...

### **CONSTRUCTION AND COMMISSIONING OF COMPACT-ERL INJECTOR AT KEK**

CiteSeerX - Document Details (Isaac Councill, Lee Giles, Pradeep Teregowda): Beam Commissioning for the damping ring of the KEK accelerator test facility (ATF) has been started since January 1997. Control system of the ATF accelerator is based on the CAMAC-enhanced byte-serial highways handled by the Open-VMS Cluster system. Control software is integrated by using a commercial database ...

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## **CiteSeerX — The status of the control system of the KEK ...**

The construction of the initial part of the J-PARC linac has been started at KEK for beam tests before moving to the JAERI Tokai campus, where J-PARC facility is finally to be constructed. The RFQ and MEBT (Medium Energy Beam Transport) have already

## **Beam commissioning of the J-PARC linac medium energy beam ...**

- KEK-DA started beam commissioning from June 2011
- Fortunately damage from earthquake was very limited
- $10 \times 20$  A of He<sup>1+</sup> beam is provided from ECRIS
- Barrier trapping, bunch squeezing, acceleration experiments are going on
- Next Plan
- Accelerate & Extract Helium beam including He<sup>2+</sup>
- Accelerate N, O, Ne, Ar, etc.

## **Beam Commissioning of the KEK Digital Accelerator**

Sirius Commissioning Results - Liu Lin (LNLS) Review of Attosecond Free Electron Lasers - Siqi Li (SLAC) Beam Commissioning Results at the Extremely Brilliant Source Project - Pantaleo Raimondi (ESRF) Full Energy Injection from the SACLA into the Spring-8 Storage Ring - Hirokazu Maesaka (RIKEN Spring8)

## **Invited talks - IPAC20**

The beam commissioning in cERL will be scheduled from 2013 with a 35 MeV electron beam. KEK has a plan that will build 5 GeV ERL, provides ultra-high brightness and ultra-short pulsed synchrotron light, after the cERL experiments.

## **KEK - Wikipedia**

The construction of the initial part of the J-PARC linac has been started at KEK for beam tests before moving to the JAERI Tokai campus, where J-PARC facility is finally to be constructed. The RFQ...

# Access Free Beam Commissioning Of The Kek Digital Accelerator

## **Beam commissioning of the J-PARC linac medium energy beam ...**

QUASI-TRAVELING WAVE RF GUN AND BEAM COMMISSIONING FOR SUPERKEKB Takuya Natsui#, Mitsuhiro Yoshida, Xiangyu Zhou, Yujiro Ogawa, KEK, Ibaraki, Japan Abstract We are developing a new RF gun for SuperKEKB. High charge low emittance electron and positron beams

## **QUASI-TRAVELING WAVE RF GUN AND BEAM COMMISSIONING ... - KEK**

Workshop on SuperKEKB commissioning and international collaboration We are pleased to announce that the workshop “SuperKEKB : Challenges for the high luminosity frontier” will take place on 30th and 31st January, 2020, at KEK. 2019 has been a successful year devoted in large part to the phase 3 commissioning of SuperKEKB.

## **SuperKEKB: Challenges for the High Luminosity Frontier (30 ...**

Beam Commissioning of KEK Digital Accelerator Induction acceleration was confirmed (but not complete yet). Beam handling using barrier voltage pulses was demonstrated with increasing freedom of beam handling in the longitudinal direction. Consequently, it turned out that Induction Synchrotron Concept can work both as

## **and - Argonne National Laboratory**

Standard beam diagnostics, such as monitoring the beam position, beam profile, and beam loss, are important for early commissioning of the cERL. The beam monitors for the cERL are listed in Table 5 , whereas a detailed description of design and initial results are given in [55] .

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