The Beams and Applications Seminar Series

Review of Fast Beam Chopping

Fritz Caspers

CERN

Bldg. 401, room B2100
Friday, April 1, 1:30 pm

Host: P. Ostroumov, PHY

Several types of fast beam chopping systems in use or under construction are presented. Emphasis is given to their specific technologies and in particular their various fields of application. Important parameters are duty cycle, rise- and fall-time, ringing and overall bandwidth. Certain systems have very specific driver concepts, since the generation of multi-kW peak power with nanosecond transients, high repetition rate and very good pulse shape fidelity is not a trivial issue. The design of driver amplifier and actual chopper structure are not always mutually independent and thus some of the limiting aspects will be discussed.

For more information visit
http://www.aps.anl.gov/asd/physics/seminar.html

Visitors from off-site please contact Yuelin Li
(ylli@aps.anl.gov, 630-252-7863) to arrange for a gate pass.

This ANL seminar series is a CARA activity and focuses on the physics, technology and applications of particle and photon beams. It is sponsored jointly by the ASD Division, the AWA group of the HEP Division, and the ATLAS group of the PHY Division.