PAUL SCHERRER INSTITUT

INVITATION

GFA SEMINAR

Advances in stretched and oscillating-wire methods for magnetic measurement

From Carlo Petrone (CERN)

Date: **Monday, July 4th, 2016**

Seminar: **15:30 - 16.30 h**

Place: **WBGB / 019**

Abstract:

A versatile measurement system has been designed and commissioned at CERN, which is based on a wire sensor in different modes of operation: the single-stretched wire mode, the oscillating wire mode employing frequencies well below the first natural resonance, as well as the vibrating wire mode where the wire is excited in the first or higher order resonance conditions. Methods based on an oscillating and vibrating wire will be presented, in particular for measuring the field quality in accelerator magnets with small apertures (< 10 mm) and for the centring and aligning of solenoids.

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