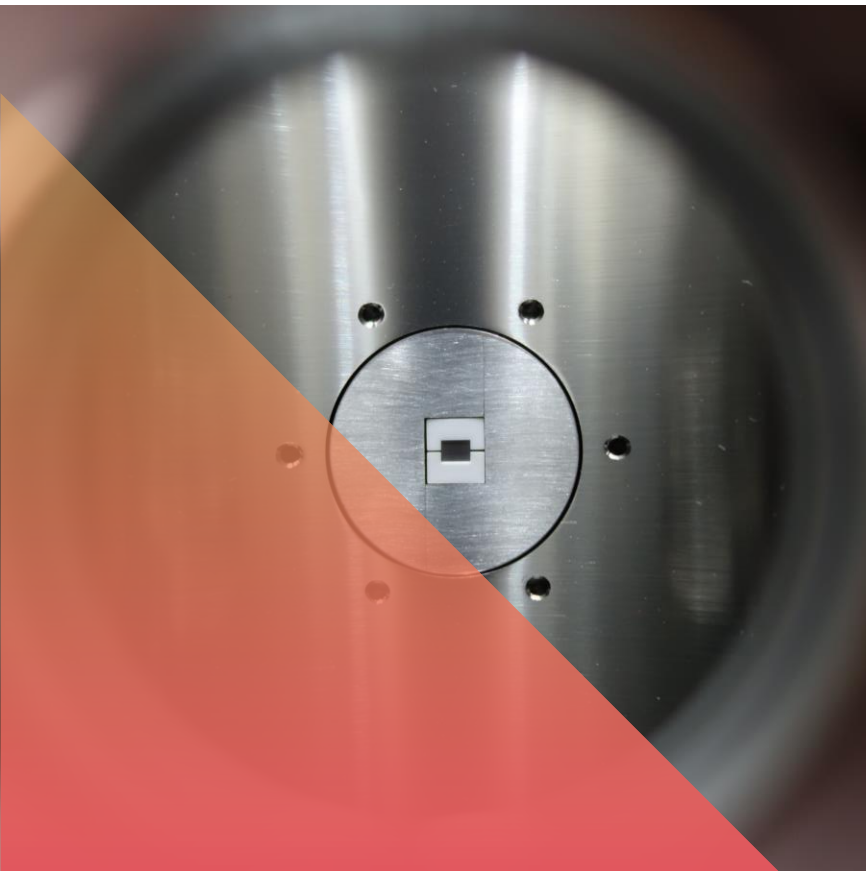


EO DC BPM

Detection of DC beams using electro-optic crystals and lasers:

Development of a laboratory test bench to demonstrate the feasibility of the technique



Current status of progress:

% of deliverables completed so far: **50%**

% of budget (100 kEUR) spent so far: **40%**

Any remaining uncertainties w.r.t planned deliverables



No



Yes

Using students (PhD/MSc/BSc) in the project?



No



Yes; 1 full-time Doctoral Student

Any interactions with other funded ATTRACT projects so far?



No



Yes

If your project were to be selected for ATTRACT Phase 2:

How would your technology scale up to become an industrial product/system?

A vacuum-compatible fibre-coupled electro-optic pickup electrode

With who you would need to partner for this to happen? (No names, just profiles of type of organizations)

An industrial partner to produce the electro-optic crystals with integrated optics and fibre-coupling

An industrial partner to integrate the crystals into vacuum-compatible pickup electrodes

Have you already discussed this with KT Group?

No

What applications will you demonstrate with value for science, industry and society? (Examples)

Remote monitoring of strong DC electric field, e.g. for high-power transmission line supervision

Any comments, remarks or observations you would like to make to CERN?

CERN ATTRACT team's support has been very much appreciated