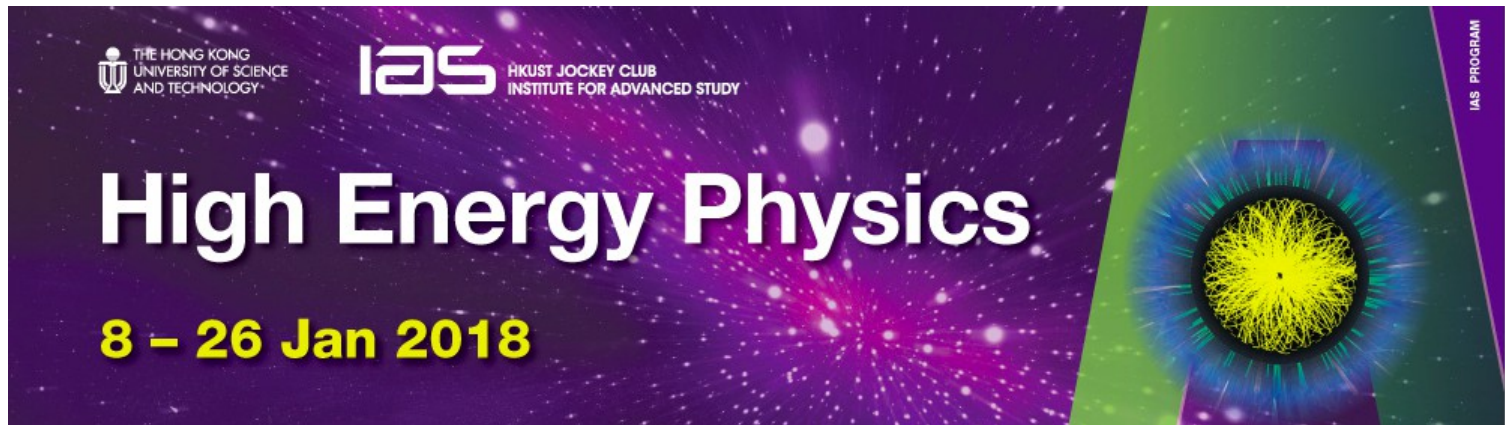




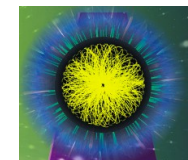
Panel discussion on e^+e^- colliders

Introduction to detector workshop

Roman Pöschl



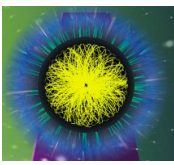
HKUST Jockey Club Hong Kong – January 2018



- Can we consider Particle Flow Detectors as the solution of choice for Linear Collider Detectors?

I think yes

- What does happen in the event that this year Japan makes a significant step forward towards the realisation of the ILC?
 - > Decisions need to be taken on a time scale of two-three years at least for large systems
 - > Need to quickly pass from R&D issues to system issues
 - > Would need quickly considerable effort and resources (Modules 0)
 - > How to coordinate with work for HL-LHC?
- What happens if not?
 - Will groups/countries drop out of e+e- collider oriented detector R&D?
R&D in US already under high pressure,
 - Europe will become uncertain (programs like AIDA-2020 will end 2019, new project???)
 - Well, there might be at least two further options in the next five years (CLIC, CEPC)?
- What is going to be the role of R&D Collaborations like CALICE, LCTPC, FCAL etc.?
They've assured so far a good deal of cooperation between different approaches



- What kind of R&D should be addressed even in view of a quick decision?
 - How need detectors to be optimised for particle ID including vertex charge ?
 - Is timing capability of detectors a way to pursue
 - 1-10ps is not a piece of cake despite the nice developments for LHC
- Independent of a decision the ongoing R&D including large scale prototypes gives a lot Of credibility for the realisation of superb detectors at e+e- colliders
- I saw at least a few Chinese R&D projects that likely duplicate existing work
 - > What is the added value (beyond having more competent young people)