# RICH OO Migration and Brunel Status

## Migration policy and status

Until now focus of RICH software efforts has necessarily been SICBMC/DST code for TDR. Will continue until September.

However, OORICH is well advanced (Dietrich L. & Niko N.)

When TDR is submitted 99% of efforts will switch to Brunel

## Manpower and contact person

Until now 1.5 people; post TDR this will grow

Brunel contact person for coming months: Dietrich Liko

# OO Simulation and Digitisation: status and plans

## What exists

GAUDI compatible counter digitisation exists

As yet no C++ photodetector digitisation code.
Clearly desirable, but not critical...

...In short term can use wrapped FORTRAN within Brunel.

## Longer term

Should we move to Cherenkov generation in GEANT4?

- Is it reliable and correct ?

- Is it desirable to retain $\gamma_C$ generation in digitisation step?
  (maybe possible to do this and still use G4 generation?)

Attempt to gain some experience (summer student project)

## Geometry description

cdf to XML converters have been written and tested

Request for graphical tool to inspect results!

# OO Reconstruction: status and plans

**What exists**

OO reconstruction exists and tested

**What's missing for Brunel**

Needs to be integrated with proper tracking
(require track parameters at RICH)

Has to be upgraded with improvements necessary for coping
with realistic backgrounds

Need to define output format suitable for GAUDI/Brunel

Need to interface with wrapped FORTRAN digitisation
and evaluate performance

**Realistic timescale?**

Early autumn