Towards the two-radiator paper

We have to speed up the preparation of the paper.

A lot of information is already available, it just has to be compiled. The missing bits are being worked on.

We should aim at having a draft ready by the time of the RICH04 workshop.

Layout of the paper – proposal →

Missing items →

Layout of the paper – a proposal

Introduction:

- **Motivation (in general and our particular)**

- **number, sigma vs thickness, sigma/sqrt(n) →
limitations of the technique**

- **new concept: several radiators**

Concept description:

- **Defocusing, focusing set-up**

- **Simple analytic estimates of resolution, number of
photons, separation power**

- **Impact of the finite incidence angle, momentum
spectrum**

Expected performance:

- MC simulation

- Likelihood construction

- Results for various layouts, with different background levels

Test beam data

- Layout etc

- Results, comparison with MC

Conclusions

- General: applicability of the method

- Expected performance for the Belle case

Missing items

Not fully available – being worked on:

- **MC simulation results (Rok, Andrej P.)**

- **Likelihood construction (Rok, Andrej P.)**

- **Comparison of test beam data with MC**