



Introduction and Scope

I. Bailey

Cockcroft Institute

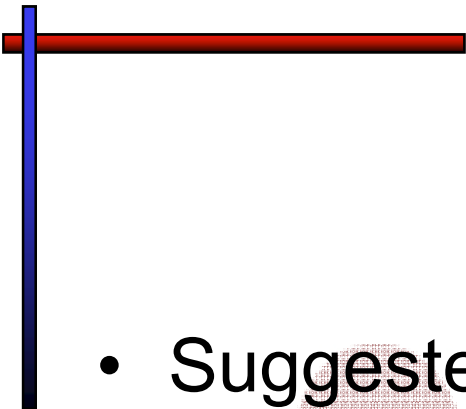


27th March 2008

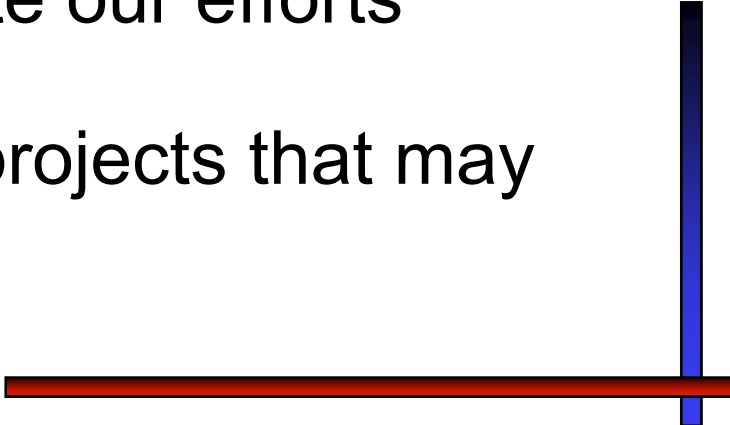
Models of Polarisation at Linear Colliders

Practicalities

- Wireless network access
 - Connect to 'guest' network
 - No WEP key required
- Transport
 - The CI will provide prepaid taxis to and from the Park Royal and Premier Travel Inn (Warrington South) on Thursday evening and Friday morning. We can book taxis on your behalf to other destinations (airport, etc)
 - If you have any queries about transport please contact Liz Kennedy
 - office: S02
 - Email: e.l.a.kennedy@dl.ac.uk
 - Tel: 01925 603820
- Lunch on Friday
 - Lunch will take place in the 'Ring of Bells' pub in Daresbury. A table has been booked for 12:15 in my name. We can leave as a group from the CI at noon.
 - The meals are prepaid, but delegates are asked to pay for their own drinks.



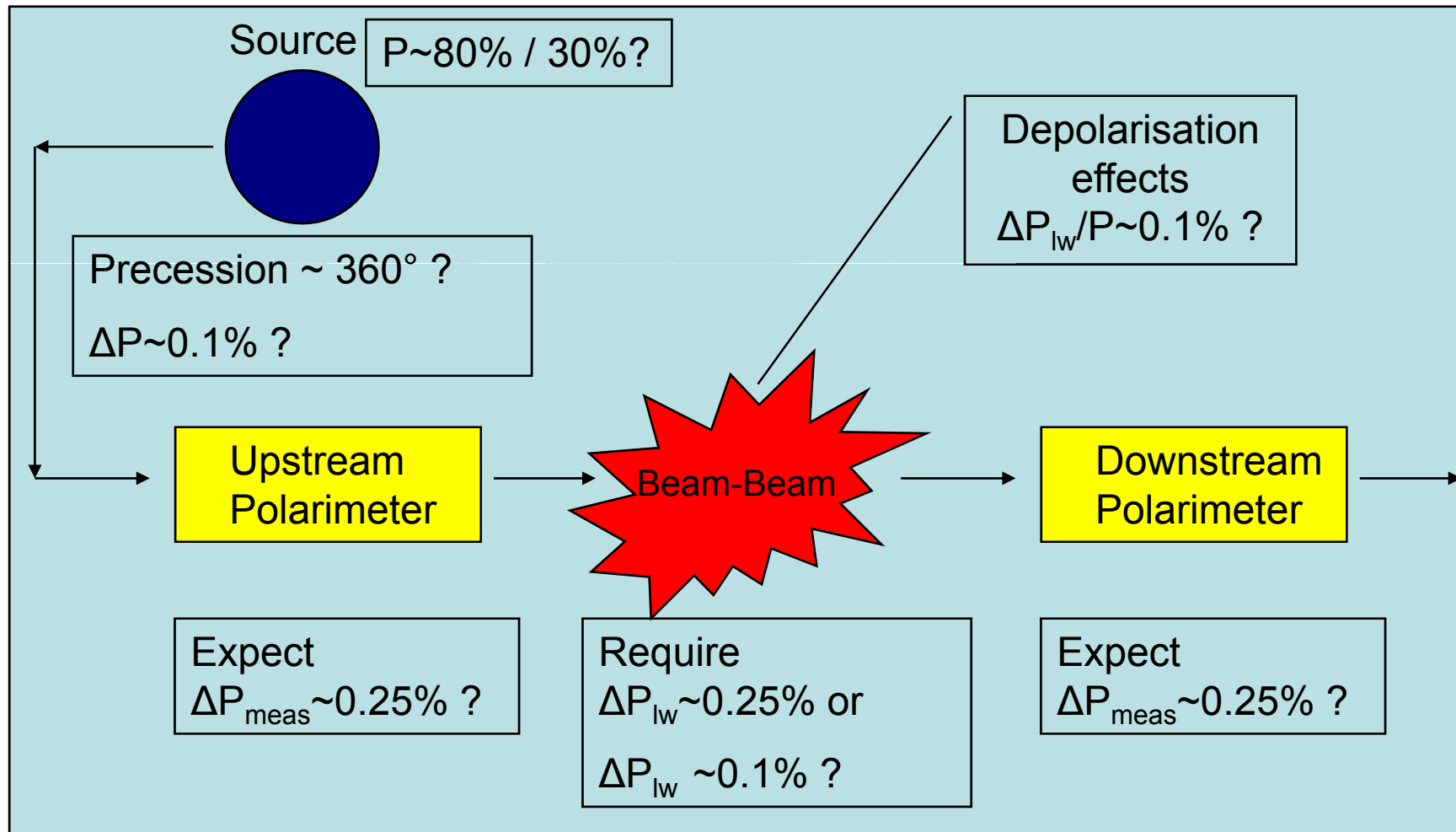
Origin and aims of Workshop

- Suggested by Eckhard Elsen and Daniel Schulte at the EUROTeV 2008 meeting in Frascati.
 - To understand models of depolarisation at the IP of future linear colliders and identify any further work required.
 - To identify more generally the ongoing and future work on spin dynamics simulations related to spin tracking for future linear colliders.
 - To set timelines and coordinate our efforts where appropriate.
 - Identify future directions and projects that may benefit from our work.
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Some Specific Questions

- What are the limitations of the models already implemented in CAIN?
- Will the same models be implemented in Guinea-Pig++? Would it be better to implement different models to control systematic uncertainties? If so then what are the options?
- What are the missing pieces in tracking the evolution of polarisation through ILC and CLIC?
- What are the relevant differences between ILC and CLIC?

A Naïve Look at the Problem



Timetable

Thursday 27th March

12:00

Registration and Lunch

13:00->15:00 **Introduction and HeLiCal status** (Convener: Jim Clarke)

Description:

Introduction and scope of workshop.
Current status of HeLiCal collaboration.

13:00 Welcome [10]

John Dainton (*Cockcroft Institute*)

13:10 Introduction and Scope of Workshop [15] ian bailey (*Cockcroft Institute/University of Liverpool*)

13:25 DESY-Cockcroft Computer Algorithms for Estimating
Depolarisation in the DR, Linac and BDS in the ILC [30] Desmond Barber (*DESY*)

13:55 Beam-beam Interactions with Full Polarization [20] Anthony Hartin (*John Adams Institute*)

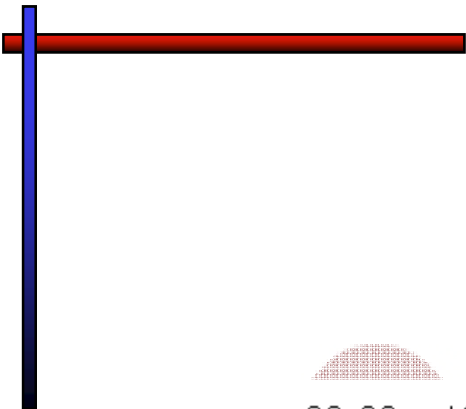
15:00

Tea and Coffee

15:30->17:00 **Guinea Pig development.** (Convener: Ian Bailey (*Cockcroft Institute/University of Liverpool*)

15:30 Guinea-Pig++ Update [20]

Cecile Rimbault (*LAL*)



Timetable

Friday 28th March



09:00->10:30 **Future Projects and Challenges**

09:00 The LHeC Project (30')

John Dainton

10:30

Tea and Coffee

11:00->12:00 **Strong Field Effects**

11:00 Anomalous Magnetic Moment of the Electron in a Strong Field Environment (20')

Gudrid Moortgat-Pick

11:20 Bunch Field Effect on Beam-Beam Process (20')

Anthony Hartin (*John Adams Institute*)

12:00

Lunch (Daresbury (Ring of Bells))

13:30->15:00 **Discussion**

15:00

Tea and Coffee

15:30->17:00 **Summary**

15:30 Summary (30')

