



Worldwide Study of
the Physics and Detectors

for Future Linear
 e^+e^- Colliders



The WWS Roadmap

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(on behalf of the WWS)





Introduction

- The DCR documents are essentially ready and the WWS will nominate a panel for reviewing them (~3 months duration)
- After the RDR, GDE intends to prepare an EDR document for 2010
- WWS has started to define its own roadmap in conjunction with ILCSC
- We should now try to agree on a process to guide us forward.

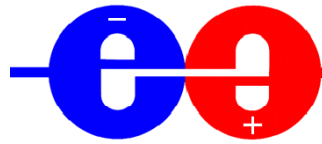




Our objectives

- Remain in phase with the GDE to start the construction of detectors in parallel with the construction of the machine
- Make it possible to start physics 8 years after the beginning of the construction of the machine
 - > **EDR ready for 2 Detectors in 2010-2011** which needs an intense technical effort starting early 2009
- To achieve this goal we should first select two Detectors in 2008
- WWS proposes the following scenario to get there

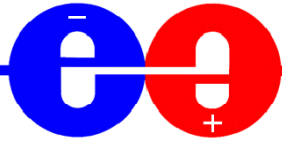




Phase I

- Start immediately, for ~1/2 year, an open and intense study held in common between the 4 concepts on critical items: μ vertexing, tracking, PFLOW
- Set horizontal WGs on these items, with the concept experts, to understand the differences, weaknesses, strong points, R&D issues, of each concept
- First results presented at LCWS07
- Try, based on these comparisons, to converge on two optimal concepts by summer 2007





Phase II

- Depending on the result of phase I, start, by fall 2007, for two CDR or N(>2) CDR
- An International Detector Advisory Group, appointed by the ILCSC and recognized by ICFA, will review the CDR's and, if needed, will unify all efforts towards two detectors retaining the best features of each CDR
- Convergence on 2 Detectors by end of 2008



Remarks

- Choosing two detector concepts in 2008 does not mean freezing all sub-detector technologies since all R&D will not be completed (e.g. for μ vertex or HCAL)
- Effort on PFLOW is a clear priority with respect with the two other items
- IDAG action should not prevent a bottom-up convergence

