

WG6:Interaction Region Summary

ISG4 meeting, July 19-22, 1999 at KEK
T.Tauchi

Major Participants

T. Markiewicz, T.Maruyama(SLAC)

T. Tauchi, A.Miyamoto, Y.Sugimoto,
H.Yamaoka(KEK)

Activity of WG6 at ISG4

7/19

Plan of the ISG report and writing it.

Exchange of FLUKA simulation (Maruyama and Miyamoto)

7/20

Writing the ISG report.

Joint session with WG1 (tail, length of collimation, SR profile etc.)

7/21

Background issue and writing the ISG report.

(1) A.Miyamoto, Status of FLUKA simulation

(2) T.Maruyama, Progress in NLC Background calculations since Sitges

(3) with WG1, discussion on high luminosity option

(4) Y.Sugimoto, Update of pair background with realistic magnetic field

(5) T.Tauchi, Comparison of ABEL, CAIN and Guinea-Pig focused on incoherent pair productions,

7/22

Stability issue

(1) H.Yamaoka, Analysis on support tube

(2) T.Markiewicz, Other issues being investigated at SLAC

Then, preparing the summary.

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Conclusion

- 1) Set the outline of the ISG report and start to write it.
- 2) Valuable exchange of informations on FLUKA simulation towards a common understanding of neutron background
- 3) Detailed investigations of e^\pm pair simulations based on GEANT
- 4) Very good agreement between CAIN, Guinea-Pig and updated ABEL for e^\pm pair s
- 5) Support tube(JLC) was confirmed to be very stable against ground motion....
- 6) Engineering works on Q1 support, collimators, inertial sensor for Q1 vibration feedback have been begun. (SLAC)
- 7) With a new estimation of 0.1% - tail, muon spoiler system was reconsidered. (SLAC)