

Super*B* Detector Technical Design Report

Abstract

This report describes the technical design detector for Super*B*.

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1 Machine Detector Interface and Backgrounds

Paoloni Pages ?

1.1 Overview **M.Sullivan, M. Boscolo E.Paoloni, - 1 page**

1.2 Backgrounds sources. **M.Sullivan, M.Boscolo, E.Paoloni, - 2 pages**

In which the processes producing backgrounds are quickly described and classified in terms of their scaling laws.

1.3 Radiative Bhabha **A.Perez - 2 pages**

In which,

- the radiative Bhabha process is described
- the simulation tools are presented
- the shielding system is presented
- the losses at the beam pipe are reported

1.4 Pairs Production **C.Rimbault - 2 pages**

In which,

- the pair production process is described
- the simulation tools are presented
- the losses at the beam pipe are reported

1.5 Touscheck bacground. **M.Boscolo - 2 pages**

In which

- the Touschek process is described
- the simulation tools are presented
- the scraping system is sketched
- the losses at the beam pipe are reported

1.6 Beam gas background. **M.Boscolo - 2 pages**

In which

- the beam gas process is described
- the simulation tools are presented
- the scraping system is sketched
- the losses at the beam pipe are reported

1.7 Synchrotron radiation background. **M.Sullivan - 2 pages**

In which

- the synchrotron radiation process is described
- the simulation tools are presented
- the shielding system is sketched
- the losses at the beam pipe are reported
- the doses in the SVT are evaluated

1.8 SVT background overview
R.Cenci C.Stella - 2 pages

1.13 IFR background overview
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1.9 DCH background overview
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pages

1.14 ETD background overview
R.Cenci - 2 pages

1.10 FTOF background overview
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1.15 SVT radiation monitor.
A.Di Ciaccio- 3 pages

1.11 FDIRC background
overview R.Cenci A.Perez -
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1.16 Quick demounting.
M.Sullivan, F.Bosi,
E.Paoloni - 4 pages

1.12 EMC background overview.
S.Germani - 2 pages
