SIS

[redacted]

[redacted]

LAL - [redacted]

[redacted]

Date : [redacted] - 12:15

[redacted]

Parallel groups on plus ends :

[redacted]

2nd ECFA/DESY Study on e+e- LCs Amsg, April '98

Electroweak Gauge Theories

- SM Tests
- Gauge Boson Properties (SM & beyond)

http://crunch.ikp.physik.tu-darmstadt.de/folc

[Old: http://www.ikp.physik.tu-darmstadt.de/~folc/ecfa.html]

- Fermion Pair Contributions
- Gauge Boson Pair Contributions
- Triple Gauge Boson Couplings
- Quartic Gauge Boson Couplings
- Anomalous Couplings
- Contact Interactions
- etc.

Electronic Music Theory

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Physics [illegible]

1) TGV [illegible]

2) QGV

3) EWSB
→ strongly interacting [illegible]

4) Background for Higgs search
& top precision measurements

5) Background for top precision meas.

6) EW production cross section
on the [illegible]

Calculational program

1) $e^+e^- \to 2f$ @ high energies

2) $e^+e^- \to 4f + \gamma$
   e [illegible] process

3) $e^+e^- \to 4f + 2\gamma$
   e [illegible] process

4) $\gamma\gamma \to 4f$ complete [illegible]

5) $\gamma e^- \to 3f + \nu$
   $+ \nu$

6) $e^+e^- \to 6f$ [illegible]

7) Phase [illegible] method and final states

Interaction with machine group

1) Beam spectra for e^+e^-, e^-e^- at higher luminosity (new parameters)
   → thermal: ok/feasible

2) Beam spectra for γe^-, $\gamma\gamma$
   ⇒ [illegible] (radiative corrections, PLC gamma)

Interaction with Debate group

1) "Canonical Cuts"
"(Same problem as last year?)

2) "Renormalized Cuts"
"(measuring?)

3) "Physics Inside Cuts
- Jet Inside Monte Carlo
Interface
(Measuring? Jets?)

Specific Projects

1) Beam spectra for $5 \cdot 10^{33}$ cm^{-2}s^{-1}
→ [illegible]

2) Radiative corrections for $e^+e^- \to 2\gamma$ → Learn?
$e^+e^- \to 2\gamma$ vs. [illegible]

3) Energy calibration using asymmetric beams:
20 GeV × [illegible] → [illegible]
500 MeV × [illegible] → [illegible]

?

4) ZPITTER @ [illegible] [illegible]

5)

Reference reactions:

1) $e^+e^- \to$ [illegible]

$\to$ [illegible] (2)

$\to$ [illegible]

2) $e^+e^- \to \nu\nu H$

Gaisser ?

3) $\gamma\gamma \to \nu\nu \to 4f$

4) [illegible]

$e^+e^- \to Z\gamma + n\gamma$

5) $e^+e^- \to c\bar{c}$

$b\bar{b}$