- Lumi: 0.83. 62k pairs, w/ 706 TeV
- Power: ILC×1.25
- Backward
- Forward



- Lumi: 0.83. 62k pairs, w/ 706 TeV
- Power: ILC×1.25
- Backward
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- Lumi: 0.80. 52k pairs, w/ 341 TeV
- Power: ILC×2.13
- Backward
- Forward



- Lumi: 0.80. 52k pairs, w/ 341 TeV
- Power: ILC×2.13
- Backward
- Forward





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Pairs in HALHF

- Lumi: 0.76. 48k pairs, w/ 185 TeV
- Power: ILC×2.13
- Backward
- Forward
- Symmetric energy: Lumi: 1.06. 64k pairs, w/ 48 TeV
- Power: ILC
- ILC250 SetA
- Lumi: 1.72. 125k pairs, w/ 111 TeV
- Power: ILC







-1.5

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- Lumi: 0.76. 48k pairs, w/ 185 TeV
- Power: ILC×2.13
- Backward
- Forward
- Symmetric energy: Lumi: 1.06. 64k pairs, w/ 48 TeV
- Power: ILC
- ILC250 SetA
- Lumi: 1.72. 125k pairs, w/ 111 TeV
- Power: ILC

Mikael Berggren (DESY)



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- Lumi: 0.76. 48k pairs, w/ 185 TeV
- Power: ILC×2.13
- Backward
- Forward
- Symmetric energy: Lumi: 1.06. 64k pairs, w/ 48 TeV
- Power: ILC
- ILC250 SetA
- Lumi: 1.72. 125k pairs, w/ 111 TeV
- Power: ILC

-2

-1.5

-0.5



• There is (still) no such thing as a free lunch.

• The extent of the pairs-cone

- Does not depend on the energy-symmetry of the beams
- But depends a lot on the bunch-charge actually on the two bunch-charges individually, not on their asymmetry.
- The bunch-charge and σ_z at ILC250-SetA are (probably) optimal, and were found by a feed-back loop between the machine and experimental experts.

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