



International Linear Collider
at Stanford Linear Accelerator Center

Beam Dump Summary Baseline R&D Plan Options

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Snowmass 2005
17 August 2005

Beam Dump Summary

- **BDS Baseline :**

- Main beam dumps based on water vortex scheme rated for 18MW beam.
- Common e^+/e^- and γ dump for 20mrad
- Separate γ dump for 2mrad
- Separate beam dumps rated for full power for all beamlines (total six beam dumps).
- Undisrupted beam size increased by distance.

- **Baseline R&D :**

- Prototype and tests of beam dump window?

- **Option and Option R&D**

- Elliptical wide window
- Gas beam dump (1km of Ar in Fe)
- Beam sweeping and/or graphite rod to increase undisrupted beam size.

Beam Dump Summary

- **Other dumps not clearly defined :**