

# FLASH update

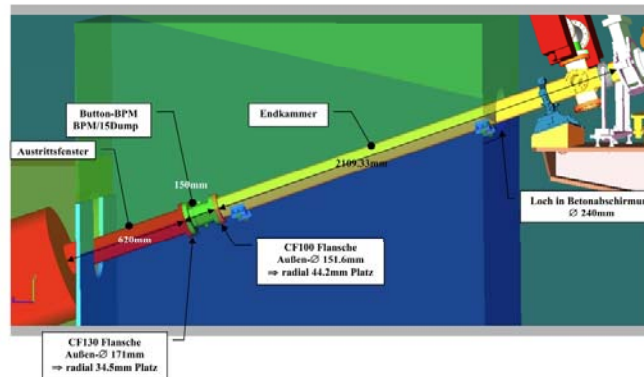
5 November, 2008

# FLASH dump-line photo



# FLASH beam-dump line

**Bereich Betonabschirmung: Austrittsfenster, BPM/1SDump, Endkammer**



# Dump repair...

- Temporary repair in place
  - But limits operation to ~30nC/pulse (eg 30 bunches, 1nC).
- For full-power beam operation:
  - Will replace entire 3m dump-line section with a new single titanium section
  - Must better instrument dump line and improve machine protection for subsequent studies.
- Repair will not be possible before April/May 2009
  - Parts will not be ready for January shutdown
  - Repair could require an additional 3-week shutdown!
- FLASH shuts down in Sept 2009 for major upgrade



## Meanwhile...

- We continue to analyze data from September run
- Studies requests have been submitted for January studies period, albeit limited to 30nC/pulse. Tentatively:
  - **3MHz RF gun**
  - **Understand beam losses and characterize with LLRF and other machine conditions**
  - **LLRF studies**
  - **High Gradient beam operation**



## LCWS08

- LLRF will be covered as part of SCRF Parallel sessions
- HLRF/ LLRF session on Tuesday
- LLRF session on Wednesday
- Topics:
  - **FLASH 9mA studies results**
  - **Preparing for full-power 9mA high gradient demos**
  - **RF cluster and distributed RF proposals**
  - **RF power overhead**