A brief timeline

- Due to a firmware bug both controllers of the Sun StorageTek 6540 array reboot within 90 minutes after each other on 18/08/2010.
- All attempts to restore and recover the data to the original hardware fail. The database is corrupted during the recovery process.
- On 01/09/2010 the database is successfully restored to alternate hardware.
- On 02/09/2010 preparations are started to synchronize the database from RAL.
- RAL starts to copy LHCb and ATLAS data to SARA.

- The data is imported into the database on 08/09/2010.
- On the same day CERN brings the streams up.

Some minor issues

- At SARA the COMPATIBLE parameter had to be changed from 10.2.0.3 to 10.2.0.4 to match the one at RAL.
- There is an error in the Oracle Database Administrator's Guide on page 8-37 regarding the syntax of the parameter file of the impdp command.

Conclusions on the resynchronization

- The resynchronization process went rather smoothly (at least from SARA's point of view).
- For SARA this was a learning opportunity. The procedure has been documented for possible future use.
- The assistance we received from both RAL and CERN was amazing.

Conclusions on data corruption

- We've been unable to determine the exact cause of the corruption.
- An upgrade of the storage firmware and a rebuild of the LUNs solved the problem (but for how long?).
- Always use "db_block_checking='TRUE'" in combination with db_block_checksum to detect logical corruption at a very early stage.