

OPEN ISSUES WITH GDML

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GDML DESCRIPTION OF SUPERB

- PRESENT DESCRIPTION MOSTLY EXTRACTED FROM BABAR
- OK FOR BARREL CALORIMETER AND DIRC BARS
- PERUGIA DEVELOPED A PYTHON SCRIPT TO MODEL THE FORWARD ENDCAP
- SOME NAIVE PARAMETRIZED SVT MODEL SKETCHED IN GDML (VERY VERBOSE)

GDML LIMITATIONS

- GDML DOES NOT
- DESCRIBE MAGNETIC FIELDS
- DEFINE REGIONS
- SENSITIVIZE VOLUMES
- SCHEMA EVOLUTION?

BRUNO PYTHONIZED

- GEANT4 PYTHON INTERFACE ENABLE THE NAVIGATION OF THE GEOMETRY AT RUNTIME
- POSSIBLE TO EXPOSE TO PYTHON METHODS TO ASSIGN MAGNETIC FIELDS, DEFINE REGIONS, SENSITIZE THE DETECTORS ETC ETC