# EMBRACE Science Data Model

- Collaboration led by F. Viallefond
- Building on the SDM for ALMA (SDMv1)
- A generalised Science Data Model (SDMv2) which can be easily tuned to any radio telescope.
- Metal model defined in XML Schema, from which we create profiles for particular instruments
- Uses “physical quantities” objects in c++
- Implemented using a code generator written in c++ which creates: c++ classes, python interface, and XML representation of the model

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- EMBRACE used as a test bed for the SDMv2
- EMBRACE use-case defined (Torchinsky, Martin, Olofsson, Viallefond, Picard)
- SDM Viewer (F. Badia)
  - Adapted for GPU, real-time viewer for visibilities
- SDMv2, code generator etc (F. Viallefond)
- Presented at CALIM2010, Dwingeloo
- Implementation (Viallefond, Renaud)