

## **“Virtual experiments”: modelling SAFARI-1 instruments**

In this session, we shall collect information about the existing SAFARI instruments.

see presentation of SAFARI-1

### **Powder Instrument For Transition In Structure Investigations (PITSI)**

This model already exists in McStas:

- [Necsa/SAFARI\\_PITSI](#)
- <https://www.sciencedirect.com/science/article/abs/pii/S0921452617310025>
- PITSI brochure

This instrument comes with a powder sample component. We suggest to try-out the `Single_crystal` component in powder/texture mode. In addition, for those having access to `cif2hkl`, other materials from CIF files are suggested. Last, one may assemble two different materials, next to each other in order to describe an interface or a phase change (e.g. different d-spacings).

### **Materials Probe For Internal Strain Investigations (MPISI)**

This model already exists in McStas:

- [Necsa/SAFARI\\_MPISI](#)
- <http://dx.doi.org/10.1016/j.physb.2017.12.011>
- Benchmarking MPISI

This instrument comes with a powder sample component. We suggest to try-out the `Single_crystal` component in powder/texture mode. In addition, for those having access to `cif2hkl`, other materials from CIF files are suggested. Last, one may assemble two different materials, next to each other in order to describe an interface or a phase change (e.g. different d-spacings).