

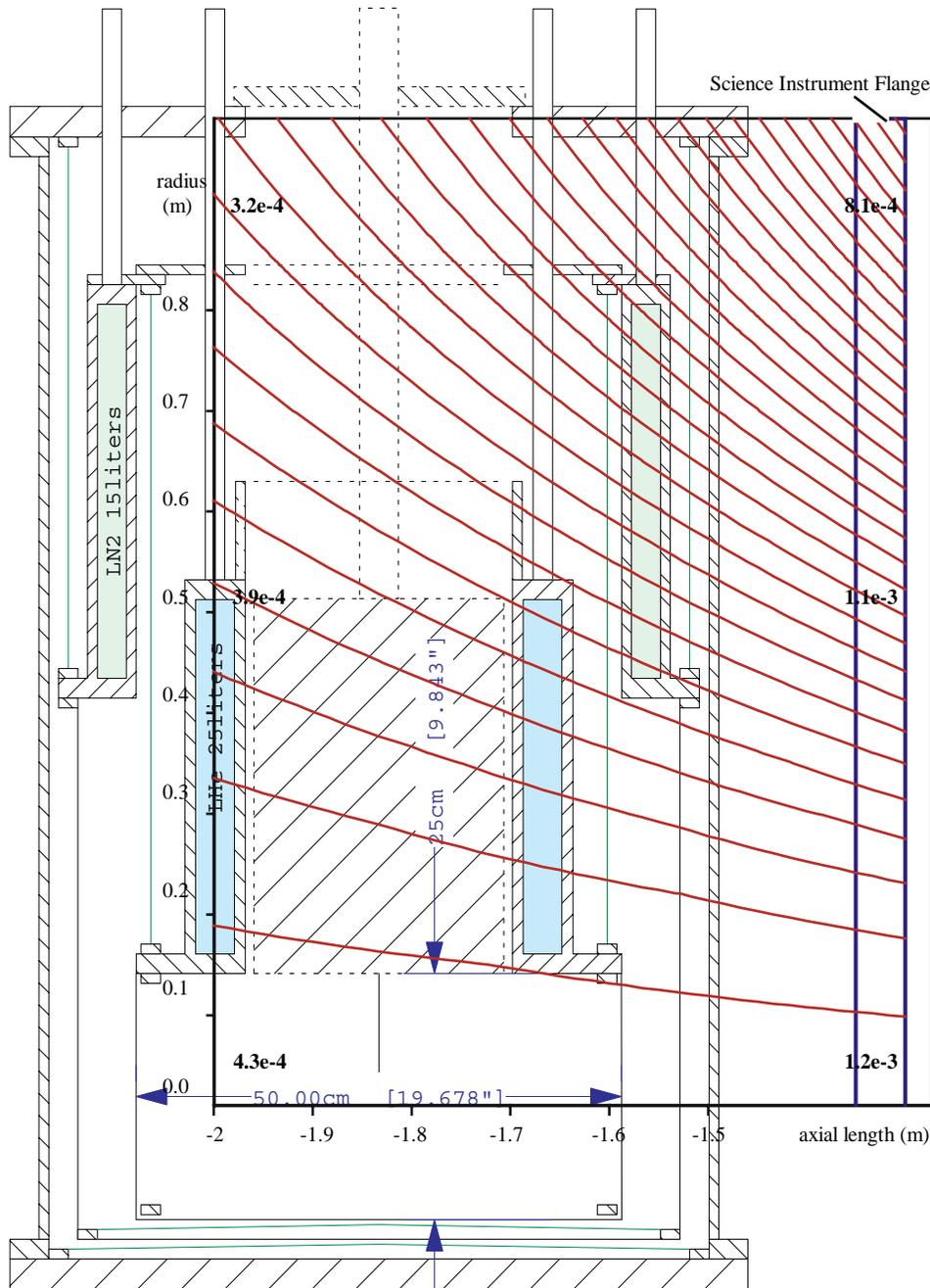
# SOFIA / SAFIRE

## Flux density calculation on the cabin side

The field is calculated for the following assumptions:

- 1) permanent magnet excitation due to the magnets of the FDTQ
- 2) r-z-geometry (rotating symmetry)
- 3) the FDTQ's of the cavity side do not affect the cabin field due to the fact that the bulkhead is made of magnetizable steel
- 4) the mechanical structure around the FDTQ's is simplified

As a result of the numerical field calculation the given values in the figures represent the flux density in G at that position.



**Flux density distribution in the region left from the science instrument flange, with SAFIRE superposed somewhat conjecturally.**