

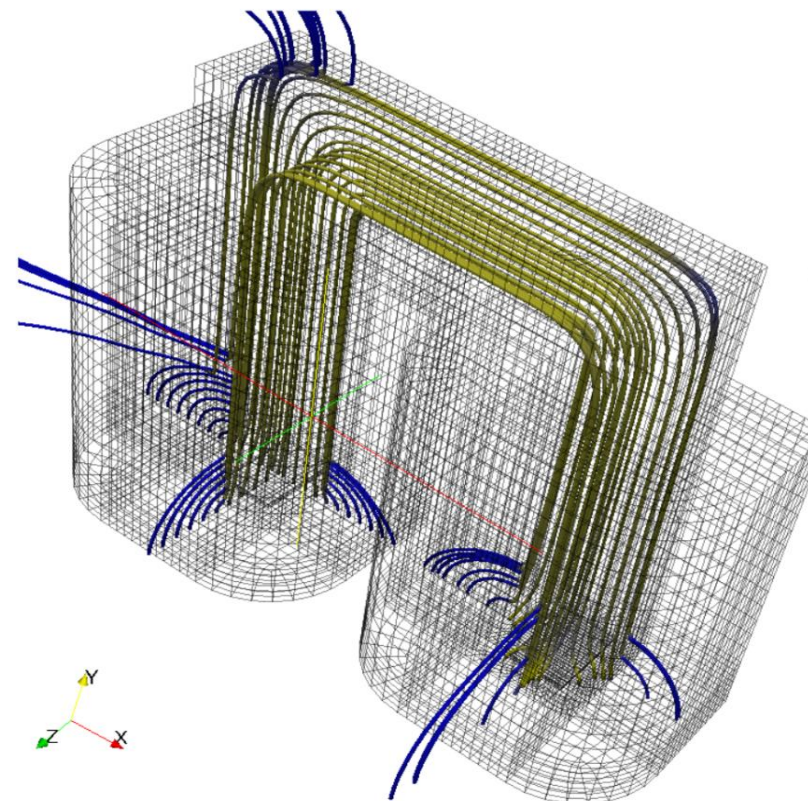
Automated Construction of Equivalent Electrical Circuit Models based on FEM Simulations

Motivation:

The description of electromagnetic components and systems by electrical circuit models is indispensable for a wide range of applications, especially in the field of Electromagnetic Compatibility (EMC).

Tasks:

- Literature search
- Development of a physical based model order reduction method directly resulting in an electric network
- Implementation, test and application



Objective:

- 3D electromagnetic field simulation using the Finite-Element (FE) method
- Learn about basic concepts of model order reduction techniques

