

## Main subject

### DGA code for frequency domain wave propagation

- ✓ port boundary condition
- ✓ perfectly matched layers
- ✓ current sources
- ✓ surface current boundary condition
  
- ✓ efficient algorithms
- ✓ good software engineering

### Collateral activities

- ✓ began study for field-circuit coupling
- ✓ reformulation of wave propagation in A- $\chi$
- ✓ complementarity
- ✓ adaptive mesh refinement
- ✓ waveguide excitations
- ✓ are iterative solvers applicable?

### Simulation of anechoic chambers

- ✓ how to lower computing requirements?
- ✓ equivalent models for anechoic walls
- ✓ material parameter extraction
- ✓ equivalent models for radiators
- ✓ geometric chamber modelling

### Validation

- ✓ vs. analytical solutions
- ✓ vs. other codes (e.g. COMSOL)
- ✓ vs. real measurements

### EMCY PAR-FSC project

- ✓ EMC aboard boats
- ✓ how to do measurements?
- ✓ measurement automation
- ✓ EM and navigation data collection
- ✓ instrument calibration