



PROGRAMME
DE RECHERCHE
NUMÉRIQUE
POUR L'EXASCALE

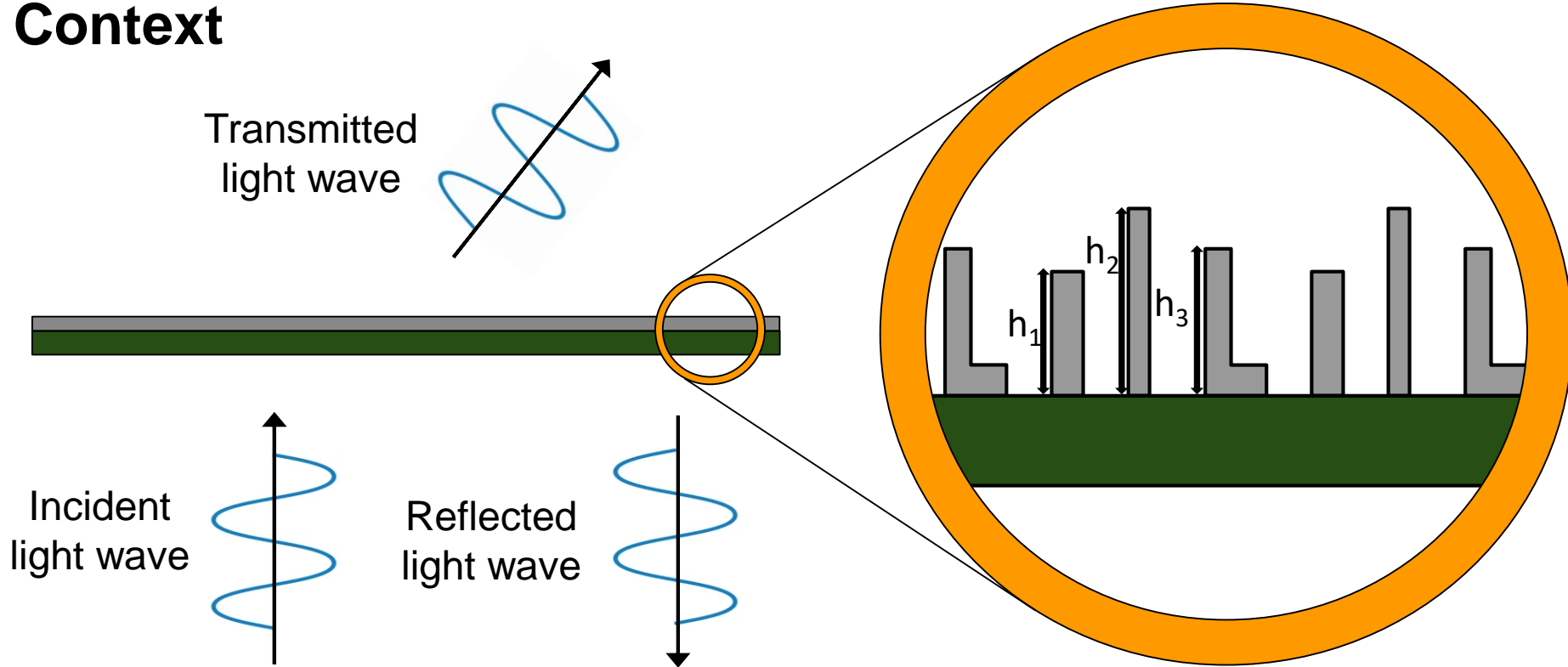
Application of Physics Informed Neural Networks to Maxwell equations

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Context

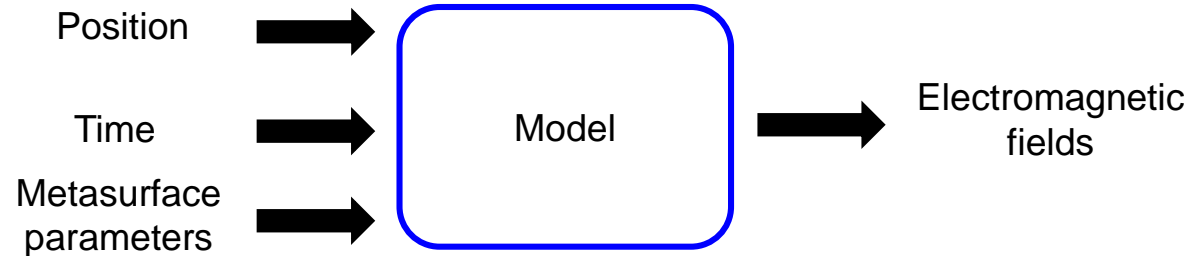


Goals

In general : integrate PINNs to optimisation process as surrogate models

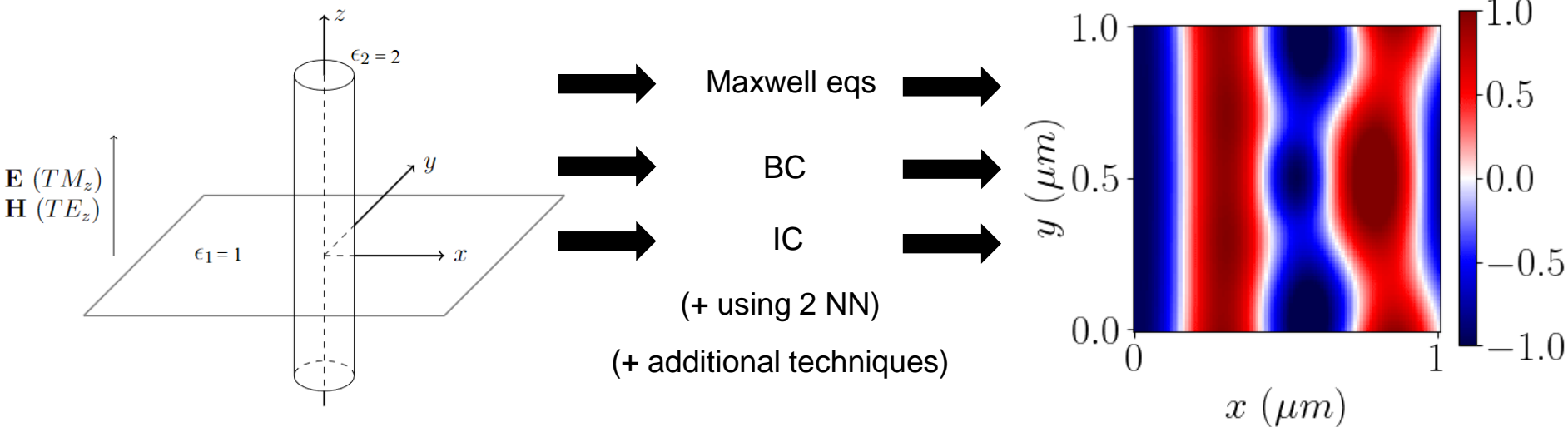
Current objectives :

- Study techniques and **optimization schemes** for training
- Make models that can handle **heterogeneous materials**
- Find best strategies for **parametric models**



Example

Training without data, only physics informed loss





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