

## SHORT COURSE ON INVERSE PROBLEMS IN IMAGING

Summary of Lectures by Antonio Corbo Esposito

1st Lecture

Basic presentation of special methods:

- Time Reversal Imaging
- Music
- ERT Factorization Method
- a note about CT scan

Recall about (very sketchy introduction to) Sobolev Spaces

2nd Lecture

Variational formulation of Laplace equation

(very) General informations about the Direct Methods in the CoV

Monotonicity Principle

Applications of Monotonicity Principle to ERT