



CONSIGLIO NAZIONALE DELLE RICERCHE  
ISTITUTO NAZIONALE DI OTTICA

## AVVISO DI SEMINARIO

**Il giorno lunedì 29 giugno 2015 alle ore 11:00**

**presso l'Area della Ricerca di Pisa**

**Aula 33, Piano terra**

*Il Prof. **Ferruccio Renzoni***

***University College of London, UK***

*terrà un seminario sul tema:*

## **Magnetic Induction Tomography with Atomic Magnetometers**

*We demonstrate magnetic induction tomography (MIT) with an all-optical atomic magnetometer. Our instrument creates a conductivity map of conductive objects. Both the shape and size of the imaged samples compare very well with the actual shape and size. Given the potential of all-optical atomic magnetometers for miniaturization and extreme sensitivity, the proof-of-principle presented in this talk opens up promising avenues in the development of instrumentation in MIT. Ongoing work in the context of medical applications is discussed.*