



**Appunti di Fisica '17
&
Dottorato di Ricerca in Fisica**

**21 marzo ore 15:00
Sala seminari, CNR-IPCFC**

**An interferometric technique for the study of
gas-liquid and liquid-liquid interfaces**

Prof. Mario Corti

(CNR-Istituto per i Processi Chimico-Fisici)

A new interferometric technique to study gas-liquid and liquid-liquid interfaces is described. Bubbles and drops, either standing by buoyancy or attached to an electrode by surface forces, are subjected to a varying-frequency external excitation, either electric or acoustic, inducing a discrete spectrum of stationary oscillation modes of the interface. Amplitudes, frequencies and widths of such frequency modes are measured by a simple interferometric technique and give direct information on the nature of the interface. Results regarding adsorption of surfactants, proteins and nanoparticles will be presented.

<http://sites.google.com/site/AppuntiDiFisicaMessina/>