

**TIME, CHAOS AND THE QUANTUM  
TOWARDS THE RESOLUTION OF  
THE TIME PARADOX**

DEL 9 A L'11 DE JUNY DE 1993

Professor convidat: **ILYA PRIGOGINE (Bruxelles)**

**PROGRAMA**

Time is the fundamental dimension of our existence. Through the ages, it has fascinated artists, philosophers and scientists. It was its incorporation into the conceptual scheme of Galilean physics that marked the origins of modern science. But this success is also the starting point of the problem which is at the center of these lectures, the denial of the arrow of time. Time as incorporated in the great laws of physics from classical dynamics to relativity and quantum physics does not include any distinction between past and future! For many physicists it is today a matter of faith: as far as the fundamental level of description is concerned there is no "arrow of time".

Yet, in all the phenomena we deal with, be they in the field of macroscopic physics, of chemistry, of biology, of human sciences, future and past play different roles. Here the arrow of time is obvious. How can the arrow of time emerge from the basic conceptual scheme of physics? How can it emerge from a time-symmetrical world? Or is time as we perceive it an illusion? The central subject of these lectures will be the paradox of time, its history and the description of the recent methods which permit to overcome it.

Les sessions es faran en anglès, de dimecres a divendres, de 10.30 a 12.30 i de 16 a 18.

Els assistents han de ser universitaris llicenciats i el nombre de places serà limitat.

El preu de la matrícula és de 6.000 PTA

**Inscripcions:** matins (10-13 hores): despatx de Filosofia, Facultat de Lletres (UdG), Plaça St. Domènec, 9, 17071 Girona. Tel. (972) 41 80 19. El pagament es farà per transferència al núm. 3300.105.000017.6 de Caixa de Girona.