



UNIVERSITÀ DELLA CALABRIA

DIPARTIMENTO DI  
MATEMATICA  
E INFORMATICA

Dipartimento di Matematica e Informatica

# Avviso di Seminario

*Lunedì 27 aprile 2015 – ore 11:00*

*Aula MT11 – cubo 30B primo piano*

*Ms Samira Rihani*

Dottoranda presso la USTHB (Algeria)

terrà un seminario dal titolo:

## *On some fractional differential equations and systems*

**Abstract:**

*Fractional order calculus appear as important and useful tool in applied sciences and engineering. The idea of non-integer-order differentiation and integration in mathematics is frequently related to anomalous diffusion process where the second derivative is substituted by a non integer order of derivation, this leads to levy process.*

*In this talk, I will give basic and different definitions of fractional integrals and derivatives considering general properties and review some results about a class of an evolution systems with nonlocal terms dealing with existence and non-existence of mild solutions by means of test functions. Furthermore, we deal with pseudo-almost periodicity for some nonlinear fractional differential equations governing many interesting dynamical systems.*

Il Direttore del Dipartimento  
*prof. Nicola LEONE*