

**PARTICIPANT FORM for the SUMMER SCHOOL****Constructivism and Enaction****A new paradigm for Cognitive Science****FIRSTNAME** : Stefano**NAME** : Osnaghi**I. – SITUATION****Status** :  University teacher     Research scientist     Thesis student     Post-doc     Other :**University/ Laboratory** : Centre de Recherche en Epistémologie Appliquée – Ecole Polytechnique (Paris)**Website labo/perso** : <http://www.crea.polytechnique.fr/>    <http://stefano.osnaghi.free.fr>**Special information(s) (article, scientific responsibility, participation to research projects, other...)** :**III. – RESEARCH THEME**

My research themes include the foundations of quantum mechanics, philosophy of physics and epistemology. Presently, I deal mainly with the relation between symmetry, objectivity and the structure of quantum models. I also develop a non-representationalist, pragmatic approach to scientific knowledge, partially inspired in transcendental philosophy and in the wittgensteinian analysis of language. Within this approach, I have been criticizing the popular idea of the ‘emergence’ of a classical, macroscopic world from quantum structures (through a process which is called *decoherence*).

**KEY WORDS**: quantum physics, epistemology, objectivity, pragmatism, symmetry

### **III. – VIDEOS AND EXPERIMENTAL MATERIAL**

*Moments of relaxation might be the occasion to share and show original scientific video documents (not too long) or experimental material (which could be used by all the participants). A video party and an experimental demonstration session have been planned. Could you indicate video or experimental material you would like to present.*

**Videos :**

**Experimental demonstration :**