

# Dr Gilles Bignan

**French Atomic Energy Commission (CEA)  
Nuclear Energy Directorate  
Reactor Studies Department**

**Cadarache Center (South of France)**

## **Scientific background**

**Nuclear Engineer Degree in 1985**

**PhD in Nuclear Reactor Physic and instrumentation in 1989**

**Entrance at CEA: October 1989**

## **Scientific activities**

### **During the 90's:**

- **R&D on nuclear systems for NPP, RR, Reprocessing plants (Burn-up credit measurement for Spent Fuel management, NPP power map monitoring...)**
- **Experimentation in SILOE and OSIRIS MTRs**
- **Technical support to the IAEA on NDA for nuclear material Safeguards (Ignalina, Paks, Rokkasho....)**

**2000-2004** Management of the 3 ZPR of Cadarache (EOLE, MINERVE and MASURCA) for neutron physics studies

- **100% MOX core loading for ABWR (Japanese collaboration)**
- **Development of fixed in-core instrumentation for fast neutron flux monitoring (SCK/BR2 collaboration)**

**2005-now:** Deputy head of the Reactor studies department (350 employees)

**R&D in support of GEN 2, GEN3 and GEN4 reactors**

**Management of 5 Research Reactors (3ZPR and 2 safety dedicated reactors)**

**Since January 2008:** User's facility interface manager for the future Jules Horowitz MTR (building the International Joint Program with OECD)