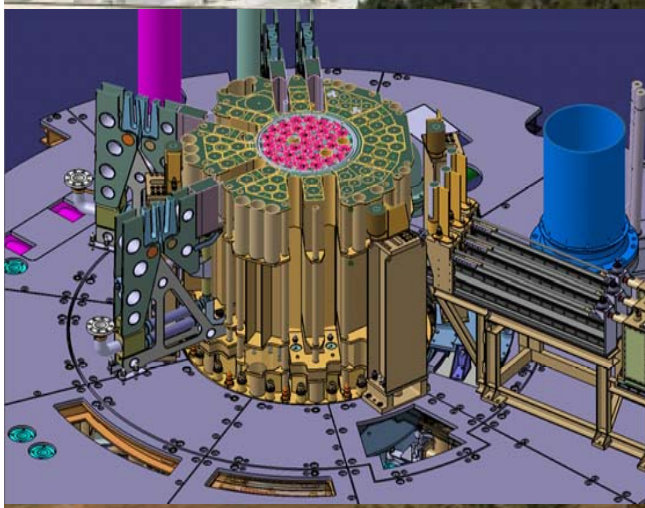


# Collaborazione internazionale su JHR: il contesto generale, il contributo ENEA e distachi a Cadarache di collaboratori scientifici italiani Dr Gilles Bignan

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*JHR as an International  
User-Facility and an  
International Center of  
Excellence:  
Building -up the scientific  
community around JHR*

## ↪ A key stake for funding partners: beyond technical stakes, JHR is a collaboration platform

- ✓ To be in touch with international scientific, industrial, safety state of art
- ✓ To train new generations of engineers and scientist
- ✓ To mutualise topics of common interest
- ✓ To consolidate efforts from utilities, industries and research agency

### Nuclear technologies

(instrumentation, innovation, manufacturing rules, CC)

### Reactor and fuel design

(multidisciplinary approach, loops, mock-up)

### Safety physics

(fast transients, LOCA, severe accidents)

### Core physics

(neutronics, thermal-hydraulics, thermo-mechanics)

### Material & fuel science

(behaviour under irradiation, mechanics, corrosion)



# International Secondees on JHR in 2011



ANSTO

ENEA

INL

ATI



Italian partners:  
ENEA,  
Universities, others...  
2012 and more !

Swedish  
Universities  
(Spring 2012)

JRC

POLATOM