



# The GASPARD Concept

## Significant challenges to direct reaction studies at SPIRAL2:

- increased level densities: **improved energy resolution**
- proximity of continuum: **bound and unbound states important**
- coupled channels: **simultaneous measurement of all reaction channels**

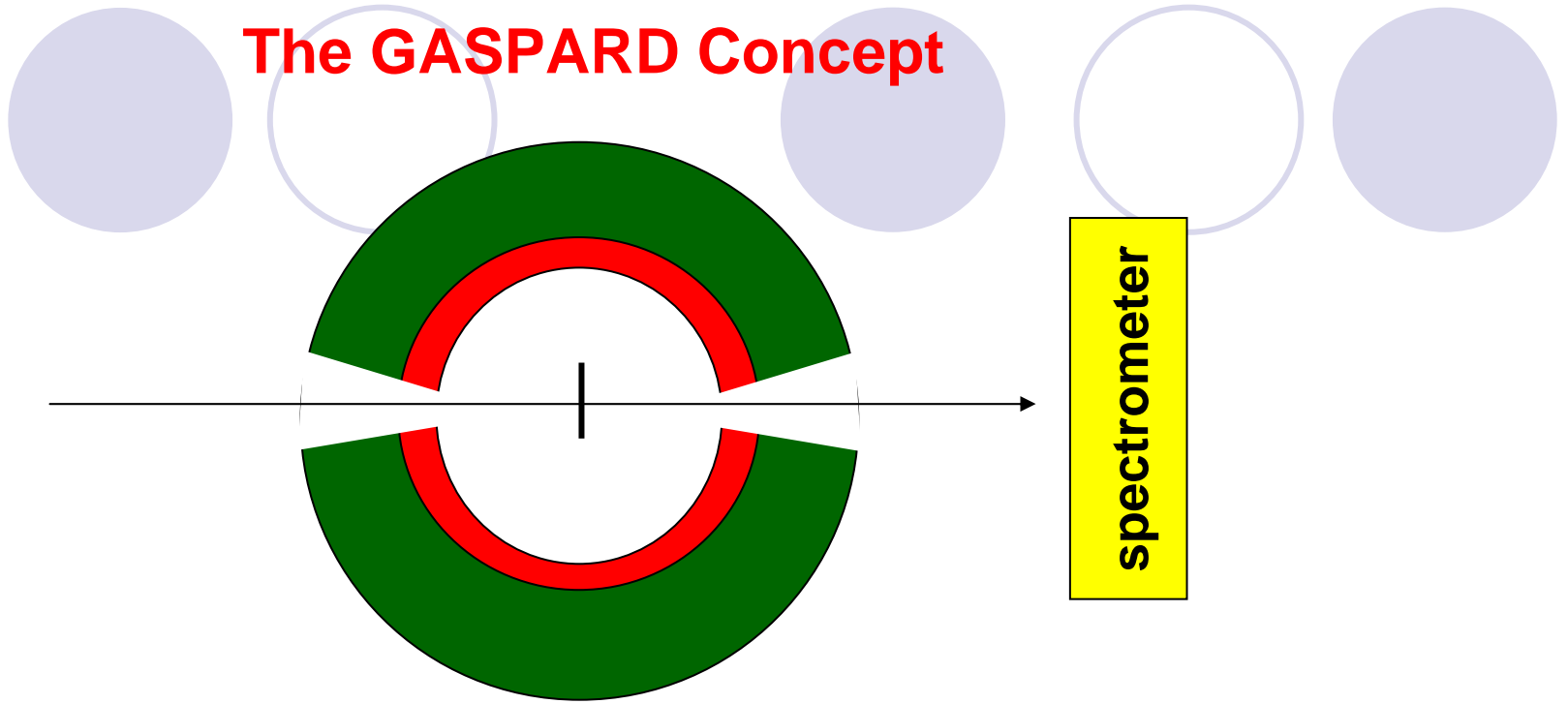
## GASPARD will be designed to meet these challenges:

- fully integrated particle and gamma detection
- maximum efficiency and solid angle coverage
- high granularity

## Modularity is important:

- need to exploit different target technologies: cryogenic, polarised
- ability to couple with other arrays: AGATA, FAZIA, Neutron detectors, magnetic spectrometers, ...

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**Particle Array**  
... requirements

**Gamma Array**  
... requirements

# Basic Detection Concept

