

# ECT\*



**EUROPEAN CENTRE FOR THEORETICAL  
STUDIES IN NUCLEAR PHYSICS AND RELATED AREAS**

**TRENTO, ITALY**

Institutional Member of the European Expert Committee NUPECC

- 1. Generalized Ikeda  $2p, 2n, xn, 4\text{He}$  and  $3\text{H}(e)$**
- 2. Decays in the continuum & particle correlations**

Castello di Trento ("Trint"), watercolor 19.8 x 27.7, painted by A. Dürer on his way back from Venice (1495). British Museum.

**Nuclear physics at the edge of stability**

Zoom, June 28- July 1<sup>st</sup> 2021

June 28-29

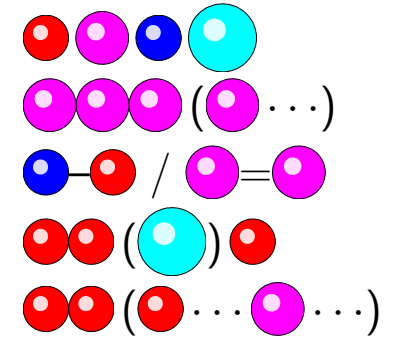
Threshold phenomena Ploszajczak Nazarewicz

Hoyle/Efimov Rogachev & alpha clustering Tanaka Beaumel Papenbrock Freer

Lattice EFT & effective interactions Lee Ishikawa

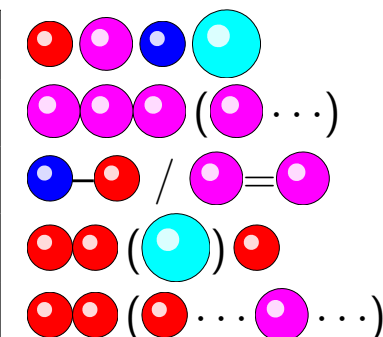
2p states Alcindor &  $\beta$ -delayed proton emission Ayyad

correlation experiments @ proton dripline Koyama Charity



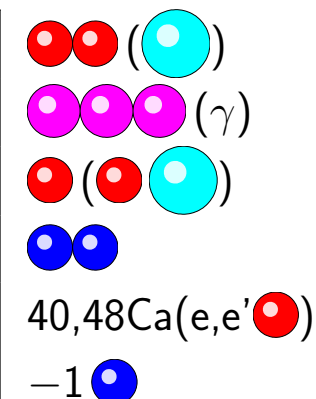
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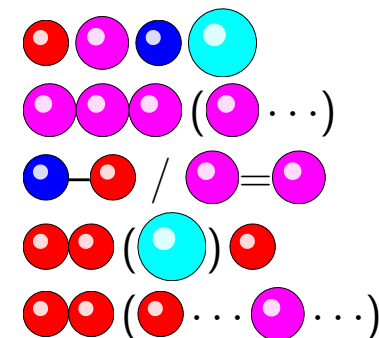
June 30

*Dynamics and correlations of two-nucleon decay* Wang  
*Exotic Nuclear decays* Fynbo  
*Multiple proton emission in 18,19Mg* Jin  
*n-n scattering length from the 6He(p,p $\alpha$ )nn reaction* Phillips  
*Dispersive Optical Model* Atkinson  
*Nuclear structure from direct reactions* Hebborn



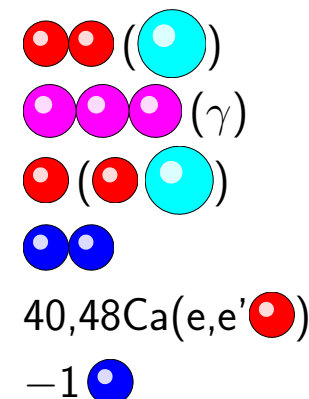
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July 1

*Study of drip line phenomena using SAMURAI* Nakamura  
*n-n correlations in Heavy Beryllium Isotopes* Monteagudo  
*Three-body resonances and two-nucleon correlations* Casal  
*Strongly correlated n-n pairs induced by deeply bound nucleon knockout* Revel  
*Nuclear reactions from first principles* Quaglioni  
*Ab initio clustering in  $^{12}\text{Be}$*  Kravvaris  
*Beta-delayed proton emission from  $^{11}\text{Be}$  in EFT* Elkamhawy

