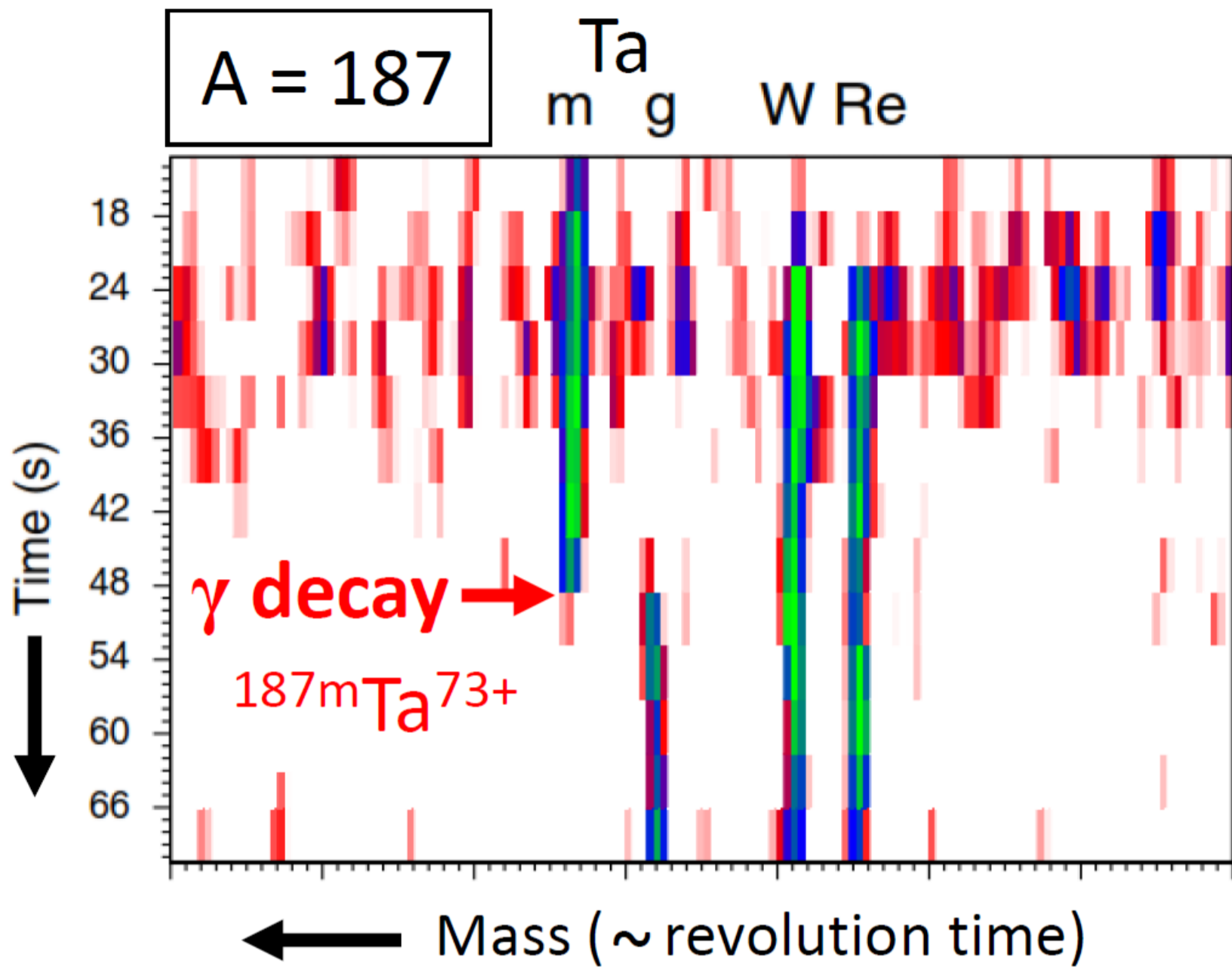


PHYSICS COLLOQUIA 2022/2023



Philip Walker | University of Surrey (GBR)
ENERGY TRAPS IN ATOMIC NUCLEI.

ore 14:30 | AULA A | VIA CELORIA 16 MILANO

MAY 30
2023

Atomic nuclei can store huge amounts of energy in excited "isomeric" states. How is this possible? What do such states teach us about nuclear structure? Can the stored energy be useful? This talk addresses these issues, starting with the discovery of isomers 100 years ago. Since the early days, isomers have made key contributions to the development of nuclear structure models, and nowadays isomers provide anchor points in the study of exotic nuclei, far from the valley of beta stability. Applications of isomers range from astrophysics to medical imaging. Emerging opportunities will be discussed, with a focus on the possibility of the controlled release of the stored energy of isomers.



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