

ANNEXES TO THE COMPETITION NOTICE AIMED AT AWARDING 1 GRANT FOR CARRYING OUT RESEARCH ACTIVITIES AT THE UNIVERSITY OF CAMPANIA LUIGI VANVITELLI, DEPARTMENT OF MATHEMATICS AND PHYSICS

Annex A
Research

Grant

Title of the research programme	Nuclear structure calculations within low-energy effective field theory
Brief description of the research programme	The research activities will focus on the calculation of the equation of state of infinite nuclear matter, and the derivation of shell-model effective Hamiltonians and decay operators starting from nuclear Hamiltonians derived by way of low-energy effective field theory.
Scientific- disciplinary sectors	FIS/02
Facility headquarters of the research	Department of Mathematics and Physics
Scientific Director (Tutor)	Prof. Luigi Coraggio
Duration of the contract (in months)	(18) months
Start of activities	February 01, 2024
Gross amount for 18 months(to the grant holder)	€ 39000,00
Financing body	MUR – within the PRIN 2022 project “Exploiting separation of scales in nuclear structure and dynamics” - CUP: B53D23005070006
Subject of the interview	Description of nuclear effective field theory, the problem of the calculation of the equation of state of infinite nuclear matter, and the derivation of shell-model effective Hamiltonian and decay operators.
Department website for the publication of information relating to the insolvency procedure (insolvency calendars and assessment results)	https://www.matfis.unicampania.it/
Date of publication of the competition calendar, the procedures for conducting the interview as well as the results of the qualification evaluation	By November 10, 2023
University website for the publication of the general merit ranking and the procedures for signing the contract	https://www.unicampania.it/index.php/ricerca/assegni-di-ricerca/bandi