

# DARK LIGHT

Illuminating Dark Energy with the Next Generation of Cosmological Redshift Surveys

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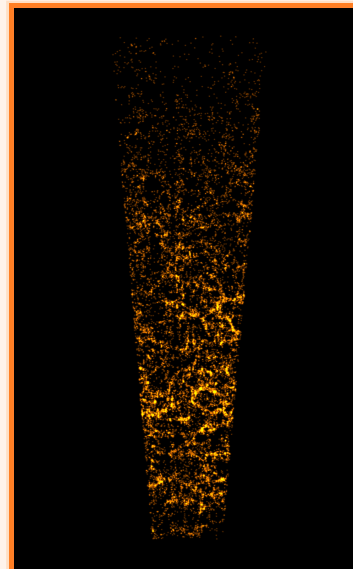
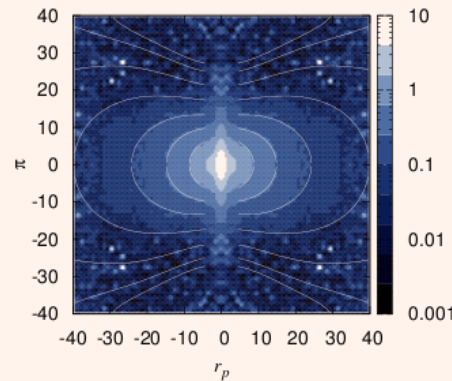
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## About the Project



DARKLIGHT is a research project led by Luigi Guzzo at the Osservatorio di Brera of INAF and funded by a 5-year (2012-2017) Advanced Research Grant of the European Research Council (ERC). Its general aim is to increase our ability to learn about the

Universe, its content and how galaxies, clusters and the cosmic web formed within it. This entails developing new techniques for optimally modeling galaxy survey data and extracting the values of the parameters describing the cosmological model. ERC funding provided the Principal Investigator with the resources necessary to assemble an international excellence team of young researchers, focused on the different aspects of the general project. The results of Darklight will help scientists to fully exploit the next generation of galaxy redshift surveys, as that of the ESA satellite Euclid.



## About the ERC

The main goal of the European Research Council is to encourage high quality research in Europe through competitive funding. ERC grants are awarded through open competition to projects headed by starting and established researchers, irrespective of their origins, who are working or moving to work in Europe. The sole criterion for selection is scientific excellence. The aim is to recognize the best ideas, and confer status and visibility on the best brains in Europe, while also attracting talent from abroad. The ERC complements other funding activities in Europe such as those of the national research funding agencies, and is a flagship component of Horizon 2020, the European Union's research Framework Programme from 2014 to 2020. In the long term, it looks to substantially strengthen and shape the European research system. This is done through high quality peer review, the establishment of international benchmarks of success, and the provision of up-to-date information on who is succeeding and why. [ Adapted from <http://erc.europa.eu> ]



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