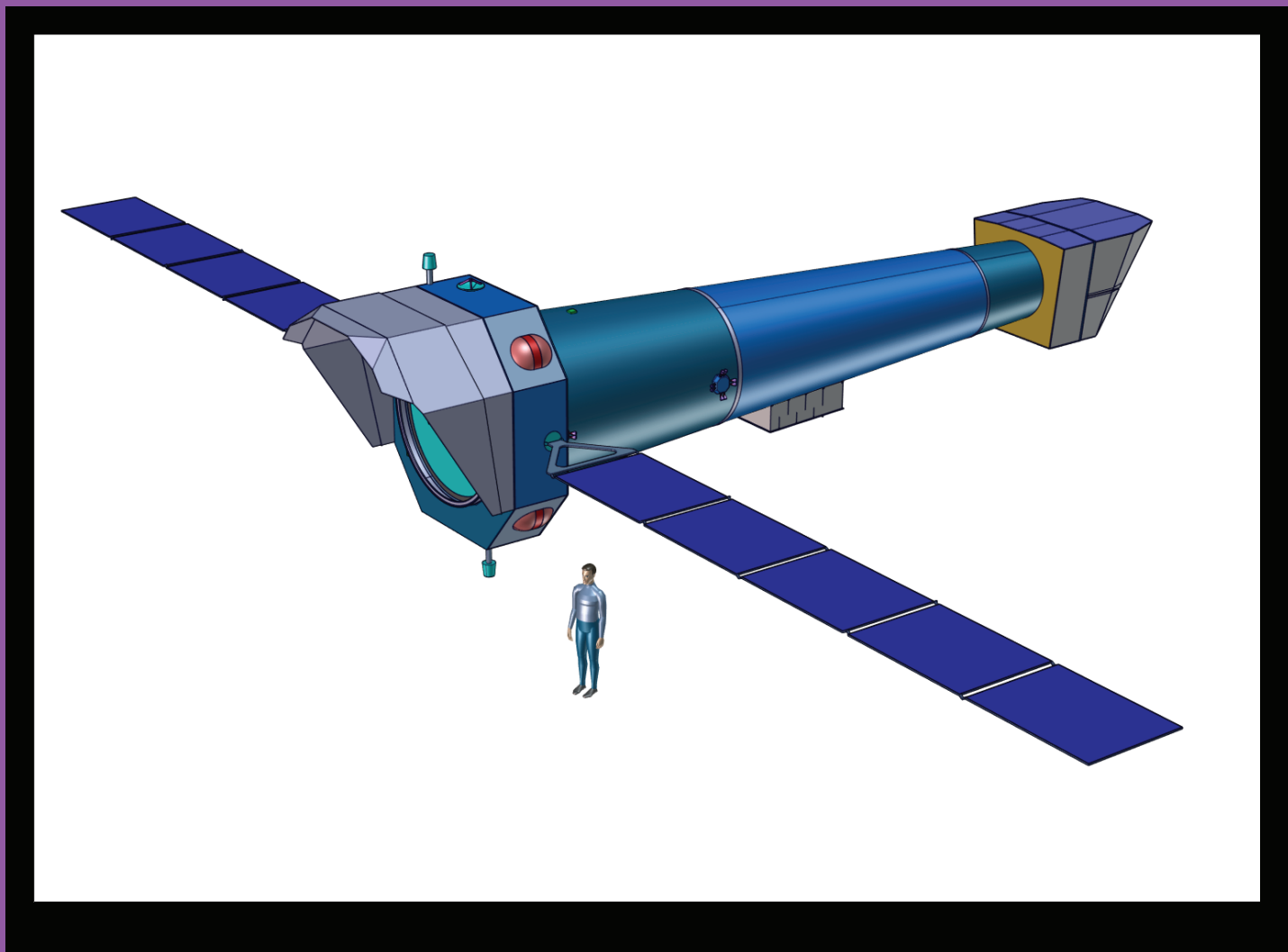
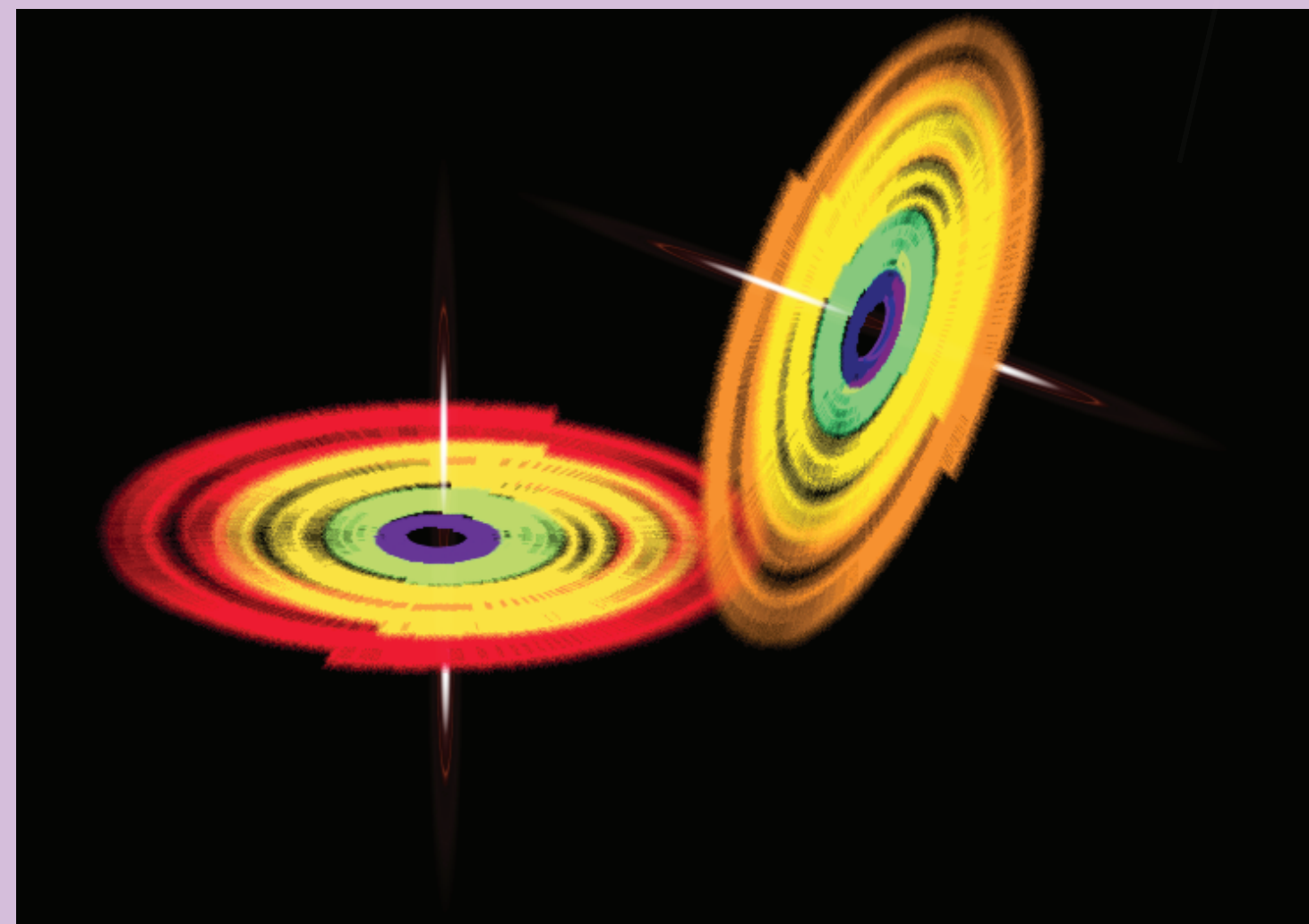


# The Universe in X-rays by

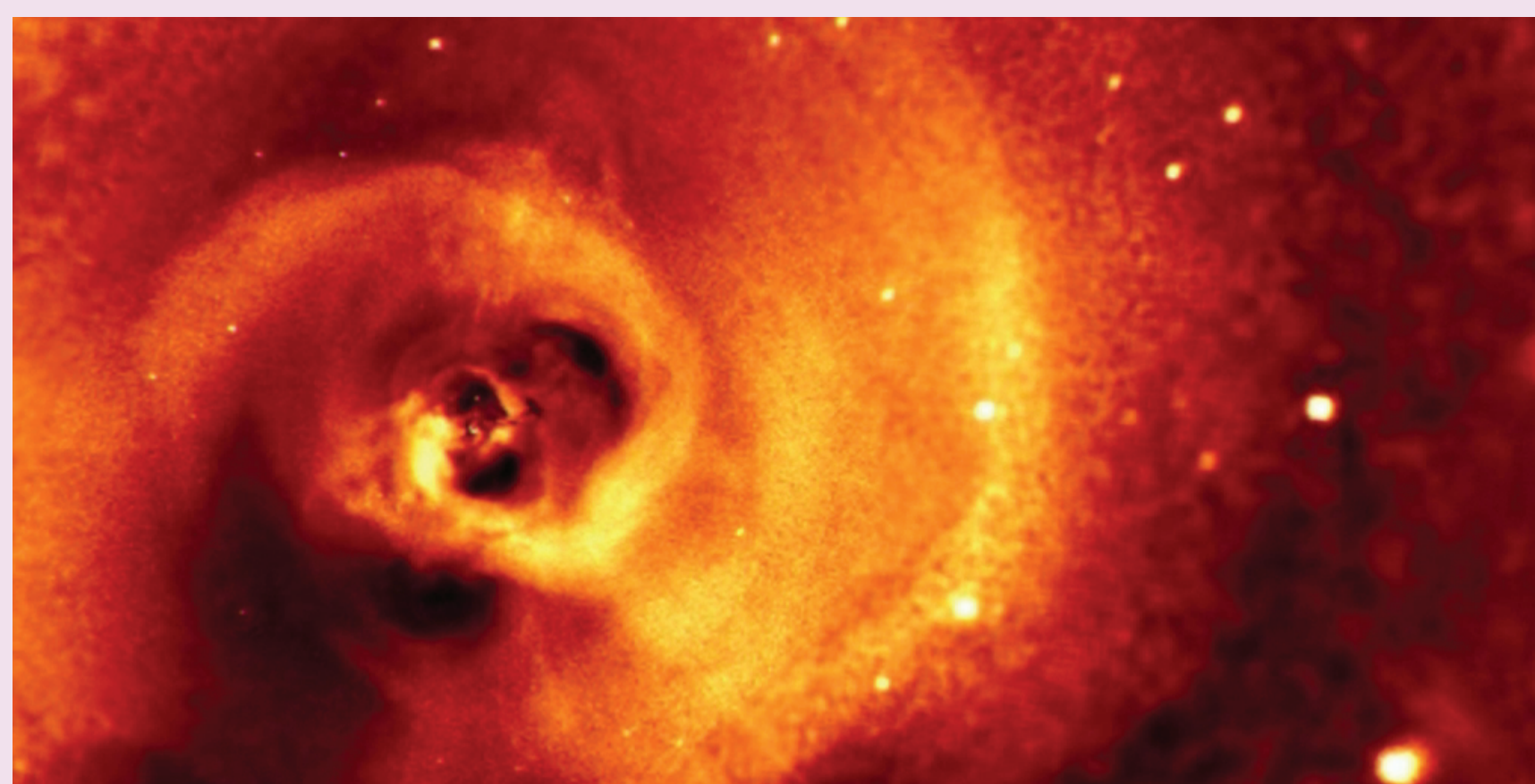
# ATHENA



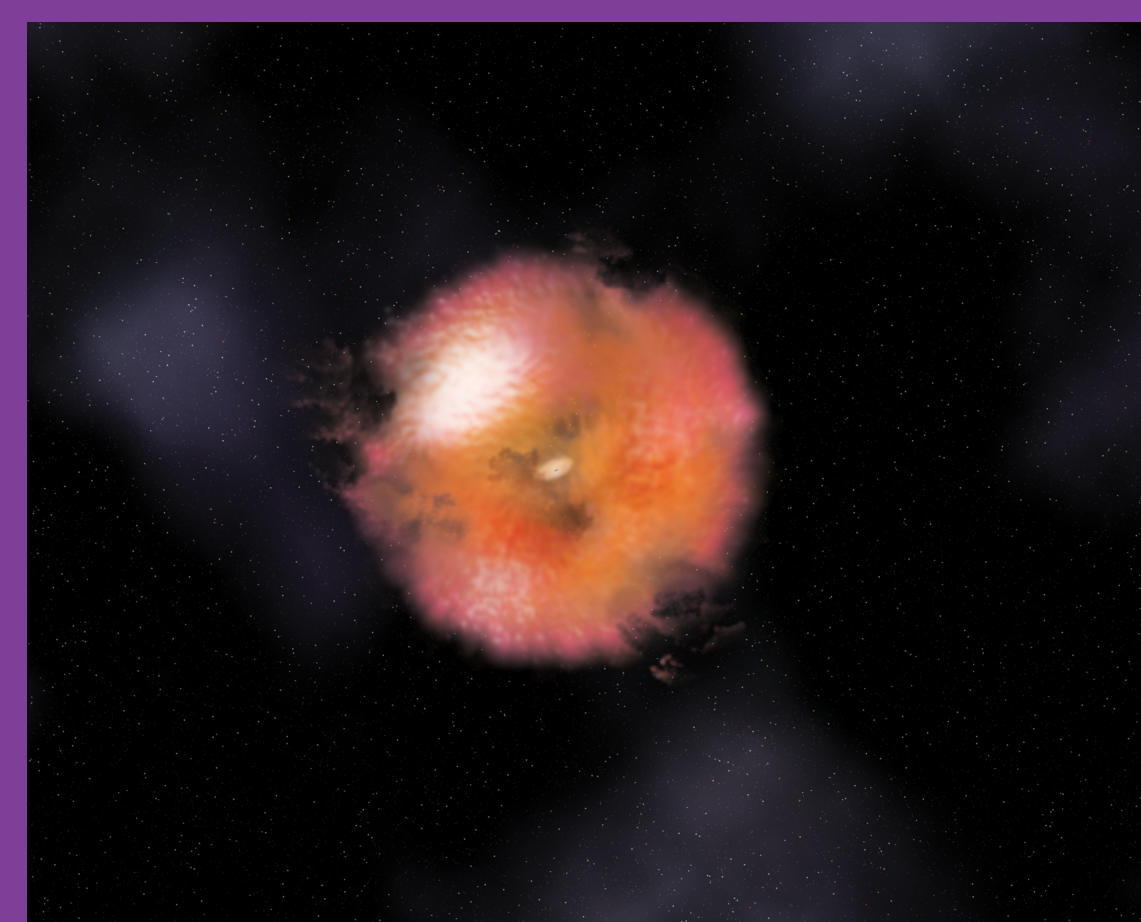
One of the possible Athena observatory configurations as designed by the ESA engineers. This observatory will be longer than 12 m.  
Credit: ESA.



Artistic impression of two black holes merging due to their strong gravity fields, surrounded by material falling into them.  
Credit: Athena Community Office.



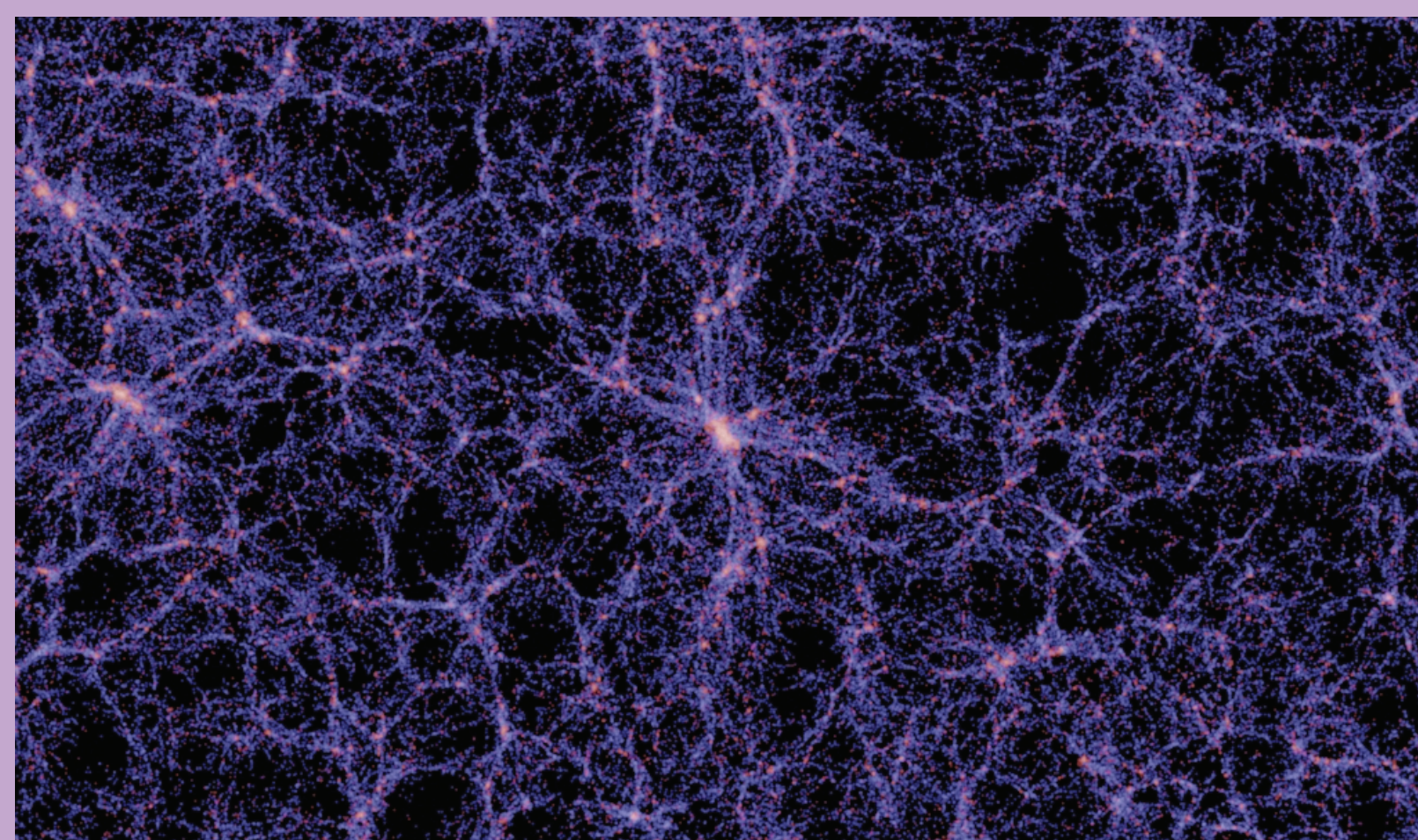
Athena catching the beauty of the Perseus cluster of galaxies. It is one of the most massive structures in the known universe, containing thousands of galaxies immersed in a vast cloud of multimillion degree gas.  
Credit: Athena team.



Artistic impression of material falling into a super massive black hole in the centre of a galaxy (not to scale).  
Credit: NASA/Aurore Simonnet, Sonoma State University.



Athena looking into the deep universe with its imager (Wide Field Imager). A simulation based in a Chandra X-ray observatory real image of a region of the sky which lies in the Fornax constellation. This region is populated by over 2,000 X-ray sources, many of them are Active Galactic Nuclei lying farther than 9 billion light years away.  
Credits: Athena team.



This picture displays the distribution of light from galaxies in a region of 1000 million light-years, showing the filamentary structure of the Universe at present time.  
Credit: Millennium Simulation. Virgo Consortium.



Artistic impression of Athena satellite observing the centre of the Milky Way.  
Credits: Athena team.



We have prepared a 3 minutes film with all these images with 3D effect.  
Visit our Youtube channel and enjoy it with your VR glasses.  
Credits: Athena Community Office.