

18TH INTERNATIONAL CONFERENCE ON GENERAL RELATIVITY AND GRAVITATION (GRG18)

8 – 13 July 2007

7TH EDOARDO AMALDI CONFERENCE ON GRAVITATIONAL WAVES (AMALDI7)

8 – 14 July 2007

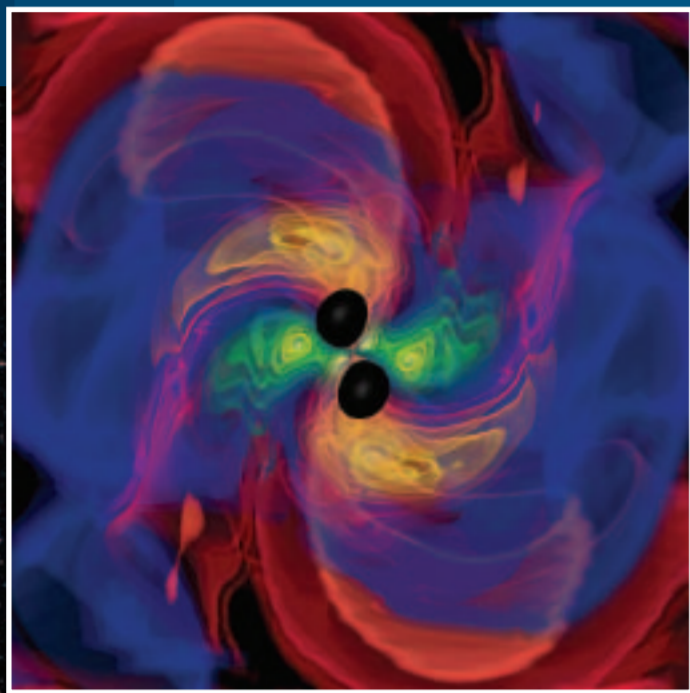


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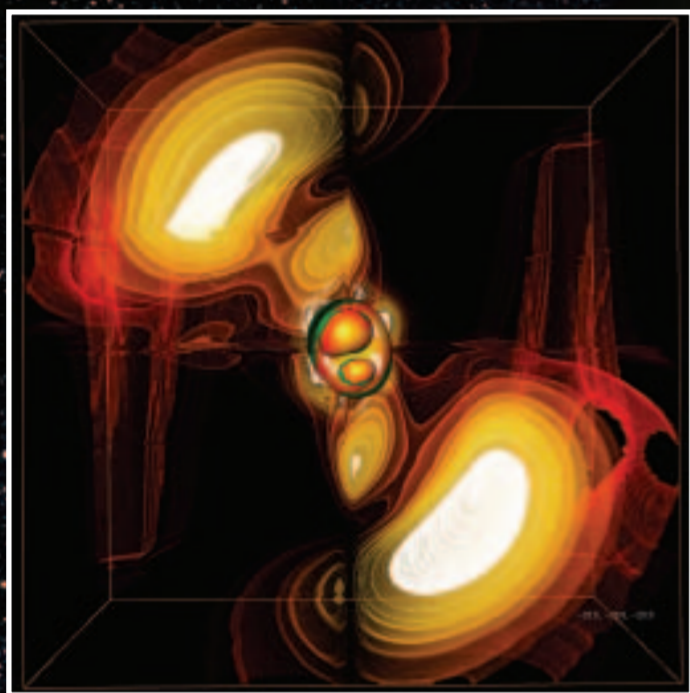


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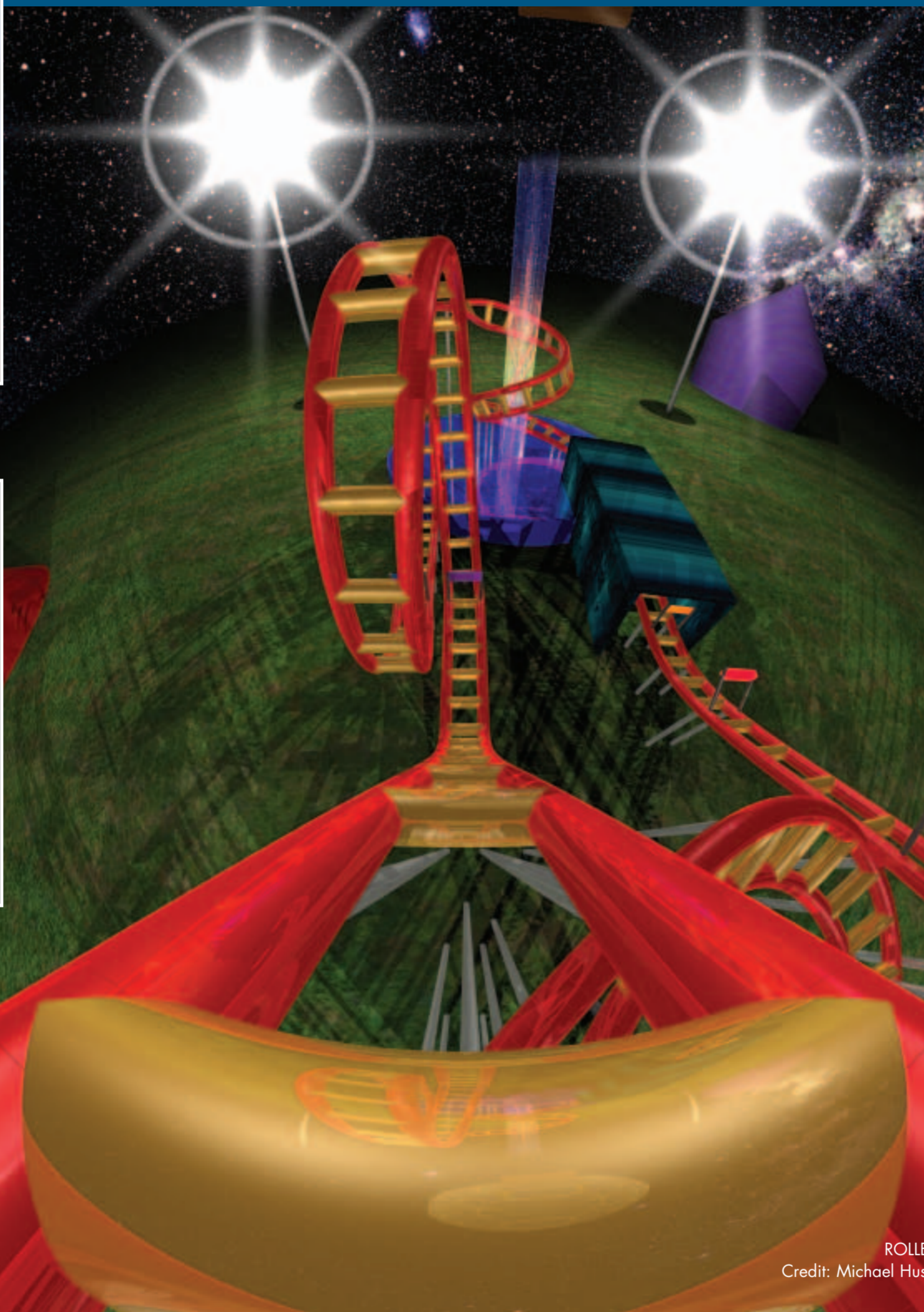
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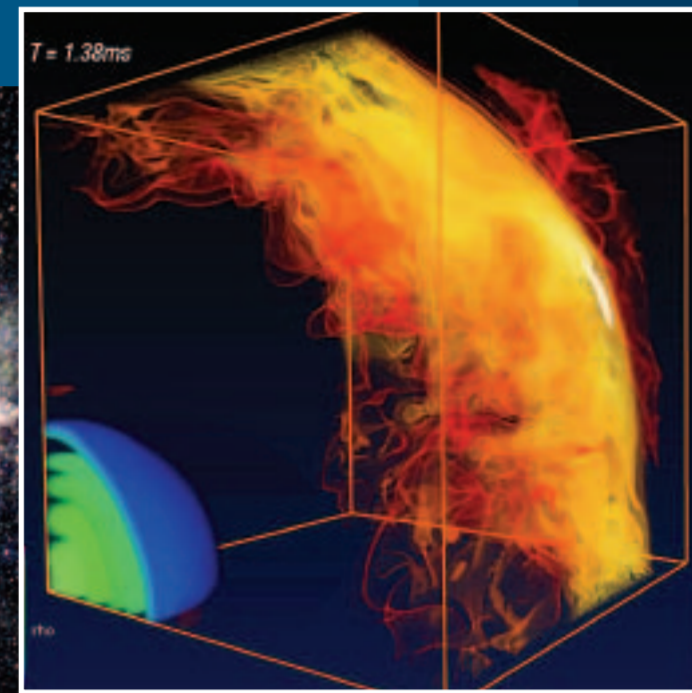
INSPIRALLING BLACK HOLES
Credit: Seidel (LSU/AEI) / Kaehler (ZIB)



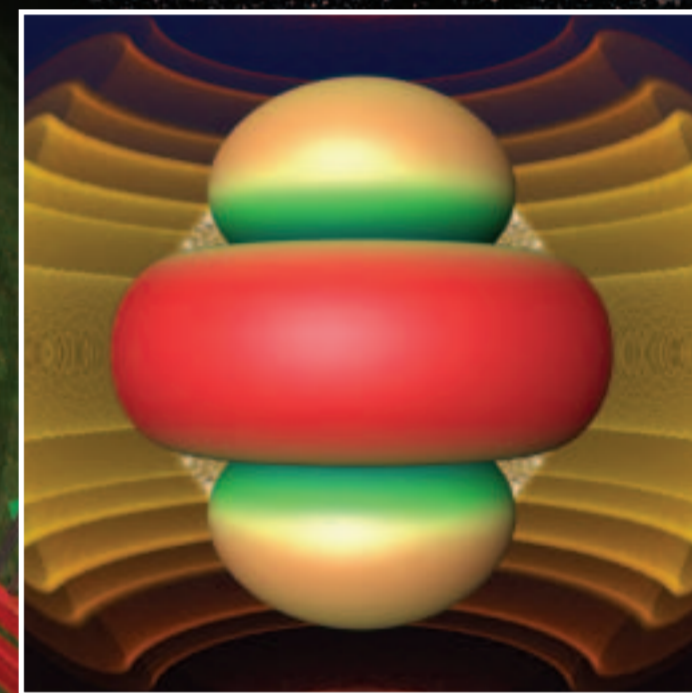
GRAZING COLLISION OF TWO BLACK HOLES
Credit: Seidel (AEI) / Bengel (ZIB)



ROLLER COASTER DISTORTED BY SPECIAL RELATIVISTIC EFFECTS
Credit: Michael Hush, Department of Physics, The Australian National University



RAPID EXPANSION OF AN UNSTABLE NEUTRON STAR
Credit: Rezzolla (AEI) / Bengel (ZIB)



VISUALISATION OF A GRAVITATIONAL WAVE HAVING TEUKOLSKY'S SOLUTION AS INITIAL DATA
Credit: Seidel (AEI) / Bengel (ZIB)

The program for GRG18 will incorporate all areas of General Relativity and Gravitation including Classical General Relativity; Numerical Relativity; Relativistic Astrophysics and Cosmology; Experimental Work on Gravity and Quantum Issues in Gravitation. The program for Amaldi7 will cover all aspects of Gravitational Wave Physics and Detection.

PLENARY LECTURES

Bernd Bruegman (Friedrich-Schiller-University Jena)
Numerical relativity
Daniel Eisenstein (University of Arizona)
Dark energy
Francis Everitt (Stanford University)
Gravity Probe B and precision tests of General Relativity
Jonathan Feng (University of California Irvine)
Collider physics and cosmology
Laurent Freidel (Perimeter Institute)
Non-string quantum gravity
Badri Krishnan (Albert Einstein Institute Golm)
Black hole horizons
Renata Loll (Utrecht University)
Other approaches to quantum gravity
Steve McMillan (Drexel University)
Gravitational dynamics of large stellar systems
Robert Myers (Perimeter Institute)
Gravitational aspects of string theory
Marialessandra Papa (Albert Einstein Institute Golm)
Gravitational wave astronomy from ground and space
Hans Ringstrom (KTH, Stockholm)
Cosmic censorship

Peter Schneider (Bonn)
Gravitational lensing
Daniel Shaddock (JPL California Institute of Technology)
Gravitational wave detection from space: technology challenges
Stan Whitcomb (California Institute of Technology)
Ground-based gravitational wave detection: now and future

PUBLIC LECTURES
Sir Roger Penrose
*The Emeritus Rouse Ball Professor of Mathematics
The University of Oxford*
Kip S Thorne
*The Feynman Professor of Theoretical Physics
California Institute of Technology*

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FURTHER INFORMATION

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