

**1st Sandoval-Vallarta Caribbean Meeting on Relativistic Astrophysics**  
**Nuclear Sciences Institute, UNAM, Mexico City**

<http://www.icranet.org/1sv/>

Preliminary program 27.11.2015

	Monday, 30 November	Tuesday, 1 December	Wednesday, 2 December	Thursday, 3 December
	Neutron Stars, Black Holes, Supernovae, GRBs	Observations, Cosmology and Gravitation tests	Gravitation, Lensing, Black Holes, Dark Matter, GRBs	Observations, Gamma-ray astronomy, cosmic rays.
<b>Morning</b>	Chair: Luis Felipe Rodriguez	Chair: Felix Mirabel	Chair: Alfredo Macias	Chair: Ulisses Barres De Almeida
09:45-10:00	Opening address			
10:00-10:45	Remo Ruffini <i>Supernovae, Neutron Stars, Black Holes and Gamma ray Bursts: in celebration of the Golden Jubilee of Relativistic Astrophysics</i> (presented by Jorge Rueda)	Luis Felipe Rodriguez <i>Tidal disruption of stars and clouds by massive black holes</i>	Alfredo Macias <i>On the incompatibility of GR and quantum theory</i>	Miguel Chávez <i>Current Status of the Large Millimeter Telescope</i>
10:45-11:30	Gus Sinnis <i>An Eye on the High-Energy Universe: The HAWC TeV Gamma-Ray Observatory</i>	Fernando Comerón <i>Highlights of the program of the European Southern Observatory</i>	Volker Perlick <i>Influence of a plasma on the light deflection by compact objects</i>	David Hughes <i>The Event Horizon Telescope: VLBI observations of supermassive black-holes with the Large Millimeter Telescope.</i>
11:30-12:15	Felix Mirabel <i>Black Holes in cosmology and Galaxy evolution</i>	Carlos Arguelles <i>New evidence of 50 keV fermionic dark matter from Milky Way &amp; Galactic observables</i>	Ulisses Barres De Almeida <i>Astroparticle Physics in South America: CTA and the synergy with current and future facilities</i>	Omar López-Cruz <i>How Big Can Supermassive Black Holes Grow?</i>
12:15-12:45	<b>Coffee break</b>			
12:45-13:30	Jorge Rueda <i>Hypercritical accretion onto neutron stars and the induced gravitational collapse paradigm of gamma-ray bursts associated with supernovae</i>	Jeff Peterson <i>Fast Radio Bursts</i>	Roberto Sussman <i>Credible modelling of realistic large scale cosmic structures with exact solutions of General Relativity</i>	Elías Castellanos <i>Scalar Field Configurations as Cosmological Condensed Matter Systems</i>
13:30-14:15	Dany Page <i>Probing the Neutron Star Crust from its Thermal Relaxation in Transiently Accreting Binaries</i>	Tonatiuh Matos <i>Dark matter as Scalar Fields</i>	Nora Bretón <i>Scattering of light by Born-Infeld electromagnetic black holes</i>	Eckehard W. Mielke <i>Rotating Boson Stars</i>
14:15-16:30	<b>Lunch at the Engineering Faculty Restaurant, UNAM</b>			
<b>Afternoon</b>	Chair: Carlos Arguelles	Juan Carlos Degollado	Chair: Nora Bretón	Chair: Eckehard W. Mielke
16:30-17:15	Hernando Quevedo <i>Geometrothermodynamics</i>	<i>Dynamics of scalar fields around black holes</i>	Fabio De Colle <i>Gamma Ray Bursts</i>	Dennis Philip <i>On analytic solutions of wave equations in Schwarzschild spacetime</i>
17:15-18:00	Nissim Fraija <i>Magnetic fields and high-energy neutrinos in Gamma-Ray Bursts</i>		José Antonio De Diego <i>High-Redshift Universe Through Gravitational Lensing</i>	Christine Gruber <i>Inflation as a thermodynamical phase transition from Geometrothermodynamics</i>
	<b>19:00-19:30 Visit to the Polyforum Siqueiros</b>	<b>19:00 Lecture at Istituto Italiano di Cultura in Mexico City</b> "The Golden Jubilee of Relativistic Astrophysics - a dialogue between Albert Einstein and Diego Rivera" <b>A. Macias, J. Rueda, R. Ruffini</b>		18:00 Concluding Remarks
	<b>20:30 Banquet at "El Palacio de los Azulejos"</b>			