

# NAC 2017 PROGRAMME

## Talks

Please note that unless otherwise specified, talks are 12 min + 3 min for questions. Invited talks are 30 mins, including questions.

## Posters

Posters should be a maximum of A0 size format, in either portrait or landscape orientation.

Monday 22 <sup>nd</sup> May			
Time	Slot	Name	Title
11:00			Welcome to NAC 2017
<b>11:05</b>			<b>Plenary Session 1 – Chair: Marijke Haverkorn</b>
	<b>11:05</b>	<b>Gerry Gilmore</b>	<i><b>Gaia: mapping a billion stars</b></i>
	11:35	Freek Roelofs	Expanding the Event Horizon Telescope into Africa and space
	11:50	Arjen van Vliet	<i>Cosmogenic gamma-rays and neutrinos constrain UHECR source models</i>
	12:05	Betsey Adams	The edges of galaxy formation as revealed by neutral hydrogen surveys
	12:20	Andrei Igoshev	<i>The velocity anisotropy in an ensemble of millisecond radio pulsars</i>
12:35			Lunch in the restaurant
<b>13:30</b>			<b>Plenary Session 2 – Chair: Gijs Nelemans</b>
	<b>13:30</b>	<b>Elena Rossi</b>	
	14:00	Jess Broderick	MANTIS: The Mid-Frequency Aperture Array Transient and Intensity-Mapping System
	14:15	<b>Conny Aerts</b>	<i><b>Asteroseismology at the service of Astrophysics</b></i>
	14:45	Christiaan Brinkerink	NCLE: a fast track towards space-based low-frequency radio astronomy
	15:00	Riley Connors	<i>Disentangling the physical mechanisms at play in sub-Eddington black hole accretion</i>
	15:15	Kristhell Lopez	Near Infrared Counterparts of ULXs
15:30			Coffee break and poster session
<b>16:00</b>			<b>Plenary Session 3 – Chair: Søren Larsen</b>
	<b>16:00</b>	<b>Patricia Schmidt</b>	<i><b>Gravitational Waves: The Sound of Spacetime</b></i>
	16:30	Nadia Murillo	Multiple protostellar systems: Coevolution and structure
	16:45	Marie Van de Sande	<i>Determining the effect of a non-uniform AGB outflow on its chemistry</i>
	17:00	Emma Storm	Building better models of the gamma-ray

17:15	Vincent Van Eylen	sky with SkyFACT
17:30	Jörg Hörandel	<i>Dynamics of small Kepler planets</i> Tracing the highest-energy particles in the Universe: Radio detection of cosmic rays
<b>17:45</b>	<b>Poster Session and Drinks Reception</b>	
18:45		Live Cooking buffet in the restaurant
19:45		Town Hall roundtable discussion: ASTRON (Carole Jackson), SRON (Frank Helmich), NOVA (Wilfried Boland), and NWO (Mark de Graef, Ronald Stark). And Ard Hartsuijker.
20:30		Evening talk by Prof. Asli Ozyurek in the main auditorium, on relations between cognition, language, communication, and development.

## Tuesday 23<sup>rd</sup> May

Time	Slot	Name	Title
08:00			Welcome in the foyer
09:00			<b>Plenary Session 4 – Chair: Jean-Michel Désert</b>
	09:00	Anna Scaife	<i>Giants, Relics &amp; DRAGNS: A Modern Radio Mythology</i>
	09:30	Ross Burns	Massive star formation using maser VLBI
	09:45	Michael Maseda	JWST science is (really) just around the corner
	10:00	Jacob Arcangeli	<i>Climate of Hot Jupiters: spectroscopic phase-curve of the exoplanet WASP-18b with HST</i>
10:15			Coffee break and poster session
10:45			<b>Plenary Session 5 – Chair: Sera Markoff</b>
	10:45	Catherine Heymans	A billion stars in the Jupyter Notebook
	11:15	Maarten Breddels	<i>IceCube: High Energy Neutrinos and Multimessenger Astronomy</i>
	11:30	Francis Halzen	1.4 GHz FIRST Radio flux on the Optical Fundamental Plane of Black Hole Activity
	12:00	Payaswini Saikia	
12:15			<b>Conference photo (gather at reception)</b>
12:30			Lunch in the restaurant
13:45			<b>4 Parallel Sessions, 15-min talks, programme below</b>
18:30			Conference Dinner
20:15			Space Music by Arthur Jeffes, lead musician of the Penguin Café and Sundog.

**Wednesday 24<sup>th</sup> May**

<b>Time</b>	<b>Slot</b>	<b>Name</b>	<b>Title</b>
08:00			Welcome in the foyer
<b>09:00</b>			<b>Plenary Session 6 – Chair: David Nichols</b>
	<b>09:00</b>	<b>Carsten Dominik</b>	<b><i>High contrast observations of protoplanetary disks</i></b>
	09:30	Joseph Callingham	Dying young and frustrated? A low radio frequency view of young radio galaxies
	09:45	Stefano Rapisarda	<i>Propagating fluctuations in black hole X-ray binaries</i>
	10:00	Ramon Navarro	Overview of optical and infrared instrumentation in The Netherlands
	10:15	Cole Johnston	<i>Probing Massive Star Formation</i>
10:30			Coffee break and poster session
<b>11:00</b>			<b>Plenary Session 7 – Chair: Onno Pols</b>
	<b>11:00</b>	<b>Frans Snik</b>	<b><i>Looking up to the skies with our feet firm on the ground; societal applications of astronomy</i></b>
	11:30	Marjorie Declair	The variation of the dust attenuation curve in the nearby Universe
	11:45	Thomas Wevers	<i>Black hole mass measurements of tidal disruption event host galaxies</i>
	<b>12:00</b>	<b>Pratika Dayal</b>	<b><i>The first billion years of galaxy formation in cold and warm dark matter cosmologies</i></b>
12:30			Poster Prize
12:35			Lunch in the restaurant
<b>13:30</b>			<b>Plenary Session 8 – Chair: Monika Moscibrodzka</b>
	<b>13:30</b>	<b>Jason Hessels</b>	<b><i>Fast Radio Bursts: A look back at the first decade of a new transient phenomenon</i></b>
	13:55	Zsolt Paragi	<i>Fast Radio Burst 121102 localization with the EVN</i>
	14:15	Kateryna Frantseva	Delivery of organics to Mars through asteroid and comet impacts
	14:30	Nastasha Wijers	<i>UV line absorption around galaxy groups and clusters using the EAGLE simulations</i>
	14:45	María Claudia Ramírez Tannus	A lack of massive short period binaries in M17
	15:00	Denise Keller	<i>The VLA view on the clumpy molecular shells of CW Leo</i>
	15:15	Peter Roelfsema	SPICA - a cryogenic infrared space telescope proposed for ESA/M5
15:30			Coffee break and poster session

<b>16:00</b>			<b>Plenary Session 9 – Chair: Cornelia Müller</b>
16:00	Daniel Montofre		<i>Design of an Optical Beam Combiner for Dual Band Observation with ALMA</i>
16:15	Felicia Krauss		Dynamic SEDs of southern blazars
16:30	Ester Aranzana		<i>High frequency optical variability properties of the largest AGN sample observed with Kepler/K2</i>
16:45	Martha Irene Saladino		Wind mass transfer in binaries and its effect on orbital evolution
17:00			End of NAC 2017

## Parallel Sessions on Tuesday

<b>Public Engagement with Astronomy &amp; Space Sciences in the Netherlands</b>			
<b>Time</b>	<b>Slot</b>	<b>Name</b>	<b>Title</b>
<b>13:45</b>			<b>Public Engagement Parallel Session 4 – Chair: Pedro Russo</b>
	13:45	Introduction by Session Chair	
	14:00	Claudia Mignone	Space down-to-earth: science communication activities at ESA
	14:15	Marieke Baan	<i>NOVA Information Center activities</i>
	14:30	Ilse van Bommel	Communicating from JIVE: a unique case for a broad audience
	14:45	Jorge Rivero-Gonzalez	<i>Astronomy Pre-tertiary Education at Leiden Observatory: Beyond Universe Awareness</i>
	15:00	Sera Markoff	Think globally, act locally: “Altair”, an outreach pilot in “de buurt” of UvA Science Park
	15:15	Ard Hartsuijker	<i>The Dwingeloo Radio Telescope for Education and Public Outreach</i>
15:30			Coffee break and poster session
<b>16:00</b>			<b>Public Engagement Parallel Session 2 – Chair: Pedro Russo</b>
	16:00	Peter Barthel & Marlies van de Weijgaert	<i>Vision on public education and outreach from Groningen</i>
	16:15	Lucas Ellerbroek	Astronomy Storytelling
	16:30-17:45	Discussions: Astronomy Education & Public Engagement in the Netherlands	

<b>NOVA Network 1: Formation and Evolution of Galaxies: from high redshift to the present</b>			
<b>Time</b>	<b>Slot</b>	<b>Name</b>	<b>Title</b>
<b>13:45</b>			<b>NOVA NW1 Parallel Session 1 – Chair: Henk Hoekstra</b>
	13:45	Introduction by NW1 chairs	
	14:00	Leo Burtscher	<i>The multi-scale, multi-wavelength view of</i>

14:15	Pratik Dabhade	<i>obscuration in local AGNs</i>
14:30	Christos Georgiou	LoTSS of GRGs <i>Shapes of galaxies in multiple broad-band filters</i>
14:45	Francesco Santoro	Probing the efficiency of the AGN feedback in young radio-loud sources: the case of PKS1934-63
15:00	Filippo Maccagni	<i>Atomic and molecular absorption lines trace THE Fuelling of radio AGN</i>
15:15	Soumyajit Mandal	LOFAR observations of the Lockman Hole field and the merging galaxy cluster ABELL 1914
15:30		Coffee break and poster session
<b>16:00</b>		<b>NOVA NW1 Parallel Session 2 – Chair: Henk Hoekstra</b>
16:00	Davide Massari	<i>The power of teaming up HST and Gaia: proper motions for distant star clusters and dwarf galaxies</i>
16:15	Christopher Barber	The Effect of a Variable IMF on Galaxy Properties in the EAGLE Simulations
16:30	Manolis Papastergis	<i>Are the small-scale cosmological challenges of LCDM resolved?</i>
16:45	Enrico Petrillo	Finding strong lenses with convolutional neural networks
17:00	Robert Schulz	<i>The parsec-scale outflow of neutral hydrogen gas in the radio galaxy 3C236</i>
17:15	Aleksandar Shulevski	Giant radio galaxies in the LOFAR two meter sky survey
17:30	Aayush Saxena	<i>Modelling the luminosities and sizes of radio sources: radio luminosity function at redshift 6</i>
17:45	Georgi Kokotanekov	AGN Feedback in Galaxy Clusters at Low Radio Frequencies

### NOVA Network 2: Formation and Evolution of Stars and Planetary Systems

Time	Slot	Name	Title
<b>13:45</b>			<b>NOVA NW2 Parallel Session 1 – Chair: Ignas Snellen</b>
13:45		Introduction by NW2 chairs	
14:00		Kamen Todorov	<i>Spectroscopy of Exoplanet Atmospheres</i>
14:15		Santiago Torres	Dynamics of the Oort Cloud in the Gaia Era i: Close Encounters
14:30		Michael Wilby	<i>Developing the vAPP-cMWS: A hybrid optic for high-contrast imaging of circumstellar environments</i>
14:45		Gabor Orosz	Water fountains and the shaping of planetary nebulae using maser VLBI
15:00		Cornelia Pabst	<i>Velocity-resolved [CII] mapping of the Orion Molecular Cloud</i>
15:15		Ana Escorza	To Ba or not to Ba: observational constraints to the formation and evolution of

			Barium stars
15:30			Coffee break and poster session
<b>16:00</b>			<b>NOVA NW2 Parallel Session 2 – Chair: Ignas Snellen</b>
16:00	Aaron Greenwood		<i>Brown dwarf protoplanetary discs: disc chemistry and prospects of planet formation</i>
16:15	Sierk van Terwisga		The ALMA Lupus disks survey: CN rings in two disks
16:30	Stephanie Heikamp		<i>Deconvolution of polarimetric datasets of simulated and observed circumstellar disks</i>
16:45	Eleonora Zari		Mapping young stellar populations towards Orion with Gaia DR1
17:00	Rajeev Manick		<i>The evolutionary nature of RV Tauri stars with a disc</i>
17:15	Glenn-Michael Oomen		Exploring the orbital diversity of post-AGB binaries
17:30	May Gade Pedersen		<i>Unraveling the internal mixing processes of the chemical factories of the Universe</i>
17:45	Christian Rab		The chemistry of episodic accretion. 2D radiation thermo-chemical models of the post-burst phase

<b>NOVA Network 3: The Astrophysics of Black Holes, Neutron Stars, and White Dwarfs</b>			
<b>Time</b>	<b>Slot</b>	<b>Name</b>	<b>Title</b>
<b>13:45</b>			<b>NOVA NW3 Parallel Session 1 – Chair: Anna Watts</b>
	13:45	Introduction by NW3 chairs	
	14:00	Liam Connor	<i>Searching for FRBs with ALERT</i>
	14:15	Jordy Davelaar	The effects of accelerated particles on the radiative properties of accreting black holes
	14:30	Martijn de Vries	<i>Thermal and Non-thermal X-ray Emission in the Environment of the Powerful Radio Galaxy Cygnus A</i>
	14:45	Laura Driessen	LOFAR studies of G54.1+0.3 - a close cousin of the Crab
	15:00	Daniele Michilli	<i>The physical processes behind Fast Radio Bursts</i>
	15:15	Alicia Rouco Escorial	The ambiguous low luminosity plateau phase in the Be/X-ray transient 4U 0115+63
15:30			Coffee break and poster session
<b>16:00</b>			<b>NOVA NW3 Parallel Session 2 – Chair: Anna Watts</b>
	16:00	Nina Gusinskaia	<i>Conquering systematics for a precision pulsar test of Einstein's equivalence principle</i>
	16:15	Michael Janssen	A data reduction pipeline for the Event Horizon Telescope
	16:30	Matthew Liska	<i>GRMHD simulations of (ultra) thin</i>

16:45	Casper Hesp	<i>accretion disks</i> Three-dimensional Simulations of Tilted Black Hole Accretion: Jets, Alignment and Precession
17:00	Thomas Bronzwaer	<i>RAPTOR: A Public Code for Time-dependent Radiative Transfer in Arbitrary Spacetimes</i>
17:15	Marisa Brienza	The story of the restarted radio galaxy B2 0258+35
17:30	Yanan Wang	<i>The reflection spectrum of the low-mass X-ray binary 4U 1636–53</i>
17:45	Klim Mikhailov	PSR J1614–2318: an aligned millisecond pulsar that accreted inefficiently?