

## Parallel Session 1: Particle astrophysics & cosmology

Session conveners:

---

Igor Tkachev (CERN)  
Dmitry Gorbunov (INR RAS)

---

**Red Hall**

**Thursday, July 27, 2006**

**Session I**

**10:00 – 11:35**

Chair: **Friedrich Dydak**

Secretaries: **Alexander Bednyakov**  
**Grigory Vartanov**

<b>10:00–10:25</b>	“From particle physics to cosmology and back”	<b>Alexander Dolgov</b> (Ferrara)
<b>10:25–10:40</b>	“Strings in the sky: cosmological predictions of string theory”	<b>Matthew Kleban</b> (Princeton)
<b>10:40–10:55</b>	“Cosmology and colliders”	<b>Bhaskar Dutta</b> (Texas)
<b>10:55–11:10</b>	“Neutrinos, dark matter and baryon asymmetry of the Universe”	<b>Mikhail Shaposhnikov</b> (Lausanne)
<b>11:10–11:25</b>	“SNAP-L, a space mission for precision measurement of dark energy parameters”	<b>William Carithers</b> (Berkeley)
<b>11:25–11:40</b>	“Virgo and LIGO: large interferometers searching for gravitational waves”	<b>Giovanni Losurdo</b> (INFN Firenze)

**Session II**

**12:00 – 13:30**

Chair: **Mikhail Shaposhnikov**

Secretaries: **Alexander Bednyakov**  
**Grigory Vartanov**

<b>12:00–12:25</b>	“The search for dark matter particles: warm, cold, direct and indirect searches”	<b>David Cline</b> (Los Angeles)
<b>12:25–12:40</b>	“DAMA at Gran Sasso: results and perspectives”	<b>Pierluigi Belli</b> (Rome)
<b>12:40–12:55</b>	“A better axion search experiment”	<b>Asztalos Stephen</b> (Livermore)
<b>12:55–13:10</b>	“Search for axions with the CERN Axion Solar Telescope”	<b>Dieter Hoffmann</b> (Darmstadt)
<b>13:10–13:25</b>	“Vacuum birefringence and dichroism signals in the PVLAS experiment”	<b>Ugo Gastaldi</b> (Legnaro)
<b>13:25–13:40</b>	“A search for neutralino dark matter using gamma-rays”	<b>Mani Tripathi</b> (Davis)

**Session III****14:30 – 16:00****Chair: Ugo Gastaldi****Secretaries: Alexander Bednyakov  
Grigory Vartanov**

<b>14:30–14:55</b>	“Searches for dark matter in space”	<b>Aldo Morselli</b> (Roma)
<b>14:55–15:10</b>	“Indirect searches for dark matter with AMS in positrons, gamma and antiprotons”	<b>Diego Casadei</b> (INFN Bologna)
<b>15:10–15:25</b>	“The PAMELA space mission”	<b>Piergiorgio Picozza</b> (Rome)
<b>15:25–15:40</b>	“Overview of GLAST a year before launch”	<b>Elliott Bloom</b> (Stanford)
<b>15:40–15:55</b>	“Galactic model uncertainties in the indirect dark matter search”	<b>Valery Zhukov</b> (Karlsruhe)

**Session IV****16:30 – 18:30****Chair: Olga Ryazhskaya****Secretaries: Alexander Bednyakov  
Grigory Vartanov**

<b>16:30–16:50</b>	“Ultra High Energy Cosmic Rays observed by AGASA”	<b>Masahiro Teshima</b> (Munich)
<b>16:50–17:10</b>	“Observation of the GZK cutoff by the HiRes experiment”	<b>Gordon Thomson</b> (Piscataway)
<b>17:10–17:30</b>	“The Auger Observatory --- status and results”	<b>Giorgio Matthiae</b> (Roma)
<b>17:30–17:45</b>	“Recent results from the RICE experiment”	<b>Dave Besson</b> (Lawrence)
<b>17:45–17:55</b>	“Very high energy gamma-ray astronomy and cosmic ray physics with ARGO-YBJ”	<b>Ivan de Mitri</b> (Lecce)
<b>17:55–18:10</b>	“Physics with the Baikal neutrino telescope”	<b>Vladimir Aynutdinov</b> (Moscow)
<b>18:10–18:25</b>	“Neutrino astronomy with IceCube and AMANDA”	<b>Ignacio Taboada</b> (Berkeley)
<b>18:25–18:35</b>	“The ANTARES neutrino telescope”	<b>Marco Circella</b> (Bari)
<b>18:35–18:45</b>	“Future detection of supernova neutrino burst and explosion mechanism”	<b>Alessandro Mirizzi</b> (Bari)