



Australia – Italy Symposium

University of Melbourne

12<sup>th</sup> July, 2012-09-12

**In Attendance:**

Prof. Antonio Masiero	INFN	Prof. Geoffrey Taylor	CoEPP
Prof. Sergio Bertolucci	CERN	Prof. Elisabetta Barberio	CoEPP
Dr. Fabiola Gianotti	CERN	Prof. Raymond Volkas	CoEPP
Prof. Oscar Moze	Embassy of Italy Canberra	Prof. Bruce McKellar	CoEPP
Prof. Anna Di Ciaccio	INFN & University of Roma Tor Vergata	A/Prof. Csaba Balazs	CoEPP
Dr. Aldo Morselli	INFN & University of Roma Tor Vergata	Dr. Antonio Limosani	CoEPP
Dr. Biagio Di Micco	CERN	Dr. Paul Jackson	CoEPP
Prof. Shahram Rahatlou	Sapienza Universita' Di Roma & INF	Dr. Mark Boland	Australian Synchrotron
Dr. Paolo Camarri	INFN & University of Roma Tor Vergata	Dr. Sara Diglio	CoEPP
Prof. Simonetta Gentile	Universita La Sapienza INFN	Dr. Matteo Volpi	CoEPP
Dr. Robert Foot	CoEPP	Dr Kalliopi Petraki	CoEPP
Mr. Nicholas Rodd	CoEPP	Mr. Ahmad Galea	CoEPP

**Communique**

Following presentations and discussions the symposium resolved to actively pursue avenues for collaboration in areas of common endeavour between Australia, represented by the ARC Centre of Excellence for Particle Physics of the Terascale (CoEPP) and Italy, represented by the Italian Institute for Nuclear Physics (INFN), in the general area of particle physics.

The following specific areas were highlighted for initial exploration of common projects:

1. Development of diamond detectors for particle physics experiments.

Complementary capability and expertise at the University of Melbourne and the Universita degli Studi di Roma Tor Vergata in the development, including detector lithography, assembly, and testing of novel diamond detectors, were identified. It was resolved by the symposium to pursue a common project in this area of research

2. Collaboration in future Dark Matter search experiments.

Advanced dark matter searches are underway in the Gran Sasso laboratory in Italy. It was resolved to pursue the potential for a southern hemisphere partner to these efforts in Australia. It was suggested that a suitable site may be found considering the prevalence of mining in Australia.

3. Research and development in accelerator physics.

The INFN has a history of particle accelerator development at the forefront of the field. With the successful operation of the Australian Synchrotron and the active high energy physics program in Australia it was resolved to pursue common projects in particle accelerator R&D.

Endorsed:

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Professor Geoffrey Taylor

Director  
ARC Centre of Excellence for Particle Physics  
at the Terascale (CoEPP)

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Professor Antonio Masiero

Vice-President  
Istituto Nazionale di Fisica Nucleare (INFN)