The University Of Sheffield.

Department of Physics & Astronomy

9th November 2017

Head of Department
Professor David Mowbray
Department of Physics and Astronomy
University of Sheffield
Hicks Building
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To whom it may concern

Re: UK – Thailand Capacity Building in Software and Hardware Infrastructures and Data Handling through Astronomy 2017

The Department of Physics and Astronomy, University of Sheffield, strongly supports Dr James Mullaney's application for funding linked to the project Newton STFC-NARIT: Using astronomy surveys to train Thai researchers in handling Big Data. This project involves exploitation of large volumes of datasets obtained with the Gravitational-wave Optical Transient Observatory (GOTO), which is a new wide-field robotic telescope based at La Palma Observatory whose primary science goal involves rapid searches of the large fields of view (100 sq. degrees) required for Advanced LIGO and VIRGO. This project, involving Warwick/Monash, NARIT, Sheffield, Armagh and Leicester, has signed an MOU with the LIGO-VIRGO collaboration and will also offer a wide range of time-domain science opportunities. Students will be trained in the development of databases to organise and Machine Learning algorithms to analyse GOTO survey data under the supervision of UK and Thai supervisors. GOTO was commissioned earlier this year and is providing access to wide field survey data, which is an excellent test bed for future, deep, high cadence surveys such as LSST, in which several GOTO team members are involved via LSST:UK.

DJ Mowbray

Professor David Mowbray
Head of Department of Physics and Astronomy

Ref. ศธ 5900/ 10630

Mae Fah Luang University
333 Moo 1 Ta-sud,
Muang district, Chiang Rai,
57100 Thailand

9 November 2017

To whom it may concern

Re: UK-Thailand Capability Building in Software and Hardware Infrastructures and Data handling through Astronomy 2017

The School of Information Technology, Mae Fah Luang University strongly supports Wg.Cdr.Dr.Tossapon Boongoen included as a named collaborator on the application for funding linked to the project Newton STFC-NARIT: Using data from astronomical surveys to train Thai students in the analysis of "Big Data".

Yours faithfully,

Dr.Teeravisit Laohapensaeng
Acting Dean of School of Information Technology
Mae Fah Luang University

School of Science
Mae Fah Luang University,
Muang, Chiang Rai
Thailand 57100

November 7, 2017

To Whom It May Concern :

Re: UK-Thailand Capacity Building in Software and Hardware Infrastructures and Data Handling through Astronomy 2017

The School of Science, Mae Fah Luang University being strongly supports Dr.Anant Eungwanicayapant included as a named collaborator on the application for funding linked to the project Newton STFC-NARIT: Using data from astronomical surveys to train Thai students in the analysis of "Big Data".

Yours faithfully

Dr.Uraiwan Intatha
Acting Dean of School of School of Science
Mae Fah Luang University

Ref. ศธ 5900/ 10679

Mae Fah Luang University
333 Moo 1 Ta-sud,
Muang district, Chiang Rai,
57100 Thailand

9 November 2017

To whom it may concern

Re: UK-Thailand Capability Building in Software and Hardware Infrastructures and Data handling through Astronomy 2017

The School of Information Technology, Mae Fah Luang University strongly supports Asst.Prof.Dr.Natthakan Iam-On included as a named collaborator on the application for funding linked to the project Newton STFC-NARIT: Using data from astronomical surveys to train Thai students in the analysis of "Big Data".

Yours faithfully,

Dr.Teeravisit Laohapensaeng
Acting Dean of School of Information Technology
Mae Fah Luang University

WARWICK
THE UNIVERSITY OF WARWICK

STFC-NARIT Newton Fund 6 November 2017

To whom it may concern,

Re: UK-Thailand Capacity Building in Software and Hardware Infrastructures and Data Handling through Astronomy

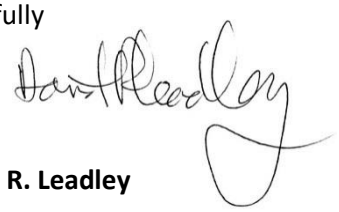
The Department of Physics at the University of Warwick strongly supports this application to the STFC-NARIT Newton Fund *Using data from astronomical surveys to train Thai students in the analysis of "Big Data"* and the engagement of Dr. Krzysztof Ulaczyk therein at the level of 20% FTE. We are committed to global engagement and the spread of learning, especially to ODA countries such as Thailand, where there are clear opportunities for the growth of a knowledge based economy alongside specific interests in astronomy.

At Warwick, we are very excited about the GOTO project and the possibility of seeing signatures of gravitational wave events in optical signals. Warwick astronomers were centrally involved in the high profile reports of GWs from a neutron star collision observed in the southern hemisphere this year and we eagerly anticipate GOTO's engagement with similar events visible in the north, especially with the enhanced sky coverage enabled by NARIT co-funding. However, this is going to involve an enormous amount of data processing – too much for manual processing – which is where machine learning becomes essential and the participation of Thai data scientists will be of great mutual benefit.

Big Data is also a theme of particular interest across Warwick departments and through our partnership in the Alan Turing Institute, which can provide further opportunities for interactions with computer scientists with expertise in Machine Learning and a broad perspective on diverse applications of Big Data.

Please do not hesitate to contact me if there are any further questions.

Yours faithfully



Prof. David R. Leadley
Head of Department

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Ref. ศธ 5900/ 10678

Mae Fah Luang University
333 Moo 1 Ta-sud,
Muang district, Chiang Rai,
57100 Thailand

9 November 2017

To whom it may concern

Re: UK-Thailand Capability Building in Software and Hardware Infrastructures and Data handling through Astronomy 2017

The School of Information Technology, Mae Fah Luang University strongly supports Dr.Surapong Uttama included as a named collaborator on the application for funding linked to the project Newton STFC-NARIT: Using data from astronomical surveys to train Thai students in the analysis of "Big Data".

Yours faithfully,

Dr.Teeravisit Laohapensaeng
Acting Dean of School of Information Technology
Mae Fah Luang University