

國家同步輻射研究中心 光束線使用時程 (TPS Schedule for NSRRC Beamline)

期別：2019-2

期間：2019/05/14 ~ 08/31

總時段數: 213 shifts

光束線： TPS 21A1 X-ray Nanodiffraction

發言人： 古慶順

經理： 邱上睿

類別： 0：Proposal Evaluation Committee 1：Contract Beamline 2：Spokesperson 3：Beamline Maintenance & Study 6：Industrial Application 7：Directorate Discretion  
8：Training Course 10：Beamline Commission 11：National Project

時段數：時間單位，以用戶使用8小時為1時段計算

計畫領域： 01：Atomic and Molecular 02：Surface, Interface and Thin Films 03：Condensed Matter Physics 04：Materials Sciences  
05：Chemistry 06：Soft Matter 07：Protein Crystallography 08：Environmental and Earth Science  
09：Methodology and Instrumentation 10：Nanofabrication 11：Applied and Industrial Research 12：Others

| TPS 21A  | 計畫編號         | 計畫主持人               | 單位   | 類別 | 起始日期             | 結束日期             | 時段數 | 計畫領域 | 計畫名稱   |
|----------|--------------|---------------------|--|----|------------------|------------------|-----|------|--|
| TPS 21A1 | 2019-1-075-2 | 古慶順                 | NSRRC  | 10 | 2019/05/14 09:00 | 2019/05/15 09:00 | 3   | 4    | Commissioning for X-ray Nanodiffraction Beamline & Endstation  |
| TPS 21A1 | 2018-3-095-3 | 鄭修偉                 | Technical University of Vienna, Institute of Applied Physics                             | 0  | 2019/05/15 09:00 | 2019/05/17 09:00 | 6   | 4    | Real-Time Microstructure Evolution Study of Matel Based Materials during Electrochemical Processing                              |
| TPS 21A1 | 2018-3-098-3 | 曾院介                 | 國立交通大學材料科學與工程系所  | 0  | 2019/05/17 09:00 | 2019/05/18 09:00 | 3   | 2    | Probing phase-transition in HfZrO2 Ferroelectric Capacitors  |
| TPS 21A1 | 2019-1-075-2 | 古慶順                 | NSRRC  | 10 | 2019/05/18 09:00 | 2019/05/19 09:00 | 3   | 4    | Commissioning for X-ray Nanodiffraction Beamline & Endstation  |
| TPS 21A1 | 2019-1-246-2 | 黃炳照                 | 國立台灣科技大學化工系  | 0  | 2019/05/19 09:00 | 2019/05/20 09:00 | 3   | 4    | Development of in Operando X-ray techniques for electrochemical energy conversion and storage materials                          |
| TPS 21A1 | 2019-1-148-2 | 郭力維                 | 國立中央大學地球科學學系   | 0  | 2019/05/20 09:00 | 2019/05/22 09:00 | 6   | 8    | Deciphering fault rocks of brittle to semi-brittle deformation: field and laboratory constraints                                 |
| TPS 21A1 | 2019-2-234-1 | Soldatov, Alexander | Luleå University of Technology (LTU), Department of Engineering Sciences and Mathematics | 0  | 2019/05/22 09:00 | 2019/05/23 09:00 | 3   | 3    | Structure of disordered carbon phases synthesized at 1 Mbar static pressure.   |
| TPS 21A1 | 2019-1-075-2 | 古慶順                 | NSRRC  | 10 | 2019/05/23 09:00 | 2019/05/25 09:00 | 6   | 4    | Commissioning for X-ray Nanodiffraction Beamline & Endstation  |
| TPS 21A1 | 2019-1-287-2 | 黃爾文                 | 國立交通大學材料科學與工程系所  | 0  | 2019/05/28 09:00 | 2019/05/29 09:00 | 3   | 4    | Vacancy & Temperature-dependent Investigations for Additive-Manufacturing Advanced Alloys  |
| TPS 21A1 | 2019-1-075-2 | 古慶順                 | NSRRC  | 10 | 2019/05/29 09:00 | 2019/05/30 09:00 | 3   | 4    | Commissioning for X-ray Nanodiffraction Beamline & Endstation  |
| TPS 21A1 | 2019-1-113-2 | 陳智                  | 國立交通大學材料科學與工程系所  | 0  | 2019/05/30 09:00 | 2019/06/01 09:00 | 6   | 4    | Stress Study for Inner Mechanism Realization on Grain Growth Nano-twin Cu Thin Film and Induce Crack in RDL Thermal Cycling Test |

| TPS 21A  | 計畫編號         | 計畫主持人 | 單位                 | 類別 | 起始日期             | 結束日期             | 時段數 | 計畫領域 | 計畫名稱   |
|----------|--------------|-------|--------------------|----|------------------|------------------|-----|------|--|
| TPS 21A1 | 2019-1-075-2 | 古慶順   | NSRRC              | 10 | 2019/06/01 09:00 | 2019/06/03 09:00 | 6   | 4    | Commissioning for X-ray Nanodiffraction Beamline & Endstation  |
| TPS 21A1 | 2019-1-258-2 | 郭瑞年   | 國立清華大學物理系          | 0  | 2019/06/03 09:00 | 2019/06/07 09:00 | 12  | 2    | Investigation of the topological phase of alpha-Sn thin films  |
| TPS 21A1 | 2019-1-075-2 | 古慶順   | NSRRC              | 10 | 2019/06/07 09:00 | 2019/07/10 09:00 | 54  | 4    | Commissioning for X-ray Nanodiffraction Beamline & Endstation  |
| TPS 21A1 | 2018-2-193-4 | 何政恩   | 元智大學化學工程與材料科學學系    | 0  | 2019/07/10 09:00 | 2019/07/13 09:00 | 9   | 4    | Formation Mechanism and Stress Relaxation of Nanotwinned Cu  |
| TPS 21A1 | 2019-1-075-2 | 古慶順   | NSRRC              | 10 | 2019/07/13 09:00 | 2019/07/27 09:00 | 33  | 4    | Commissioning for X-ray Nanodiffraction Beamline & Endstation  |
| TPS 21A1 | 2019-1-400-2 | 陳凱    | 西安交通大學材料科學與工程學院    | 0  | 2019/07/27 09:00 | 2019/07/31 09:00 | 12  | 4    | In-situ thermo-mechanical induced microstructure evolution of 3D-printed Ni-based superalloy single crystals |
| TPS 21A1 | 2019-2-235-1 | 王章潔   | 西安交通大學材料科學與工程學院    | 0  | 2019/07/31 09:00 | 2019/08/03 09:00 | 9   | 4    | In situ investigation of dislocation transmission across grain boundaries in bi-crystalline micropillars     |
| TPS 21A1 | 2019-1-075-2 | 古慶順   | NSRRC              | 10 | 2019/08/06 09:00 | 2019/08/07 09:00 | 3   | 4    | Commissioning for X-ray Nanodiffraction Beamline & Endstation  |
| TPS 21A1 | 2019-2-235-1 | 王章潔   | 西安交通大學材料科學與工程學院    | 0  | 2019/08/07 09:00 | 2019/08/10 09:00 | 9   | 4    | In situ investigation of dislocation transmission across grain boundaries in bi-crystalline micropillars     |
| TPS 21A1 | 2019-1-075-2 | 古慶順   | NSRRC              | 10 | 2019/08/10 09:00 | 2019/08/12 09:00 | 6   | 4    | Commissioning for X-ray Nanodiffraction Beamline & Endstation  |
| TPS 21A1 | 2019-2-090-1 | 王沿東   | 北京科技大學新金屬材料國家重點實驗室 | 0  | 2019/08/12 09:00 | 2019/08/15 09:00 | 9   | 4    | 2D Laue micro-diffraction studies of stress/strain between twins and grain boundary in HCP alloys            |
| TPS 21A1 | 2019-1-075-2 | 古慶順   | NSRRC              | 10 | 2019/08/15 09:00 | 2019/08/17 09:00 | 6   | 4    | Commissioning for X-ray Nanodiffraction Beamline & Endstation  |

21A1 PEC: 90 Shifts (42.3%)

COM: 123 Shifts (57.7%)