Option3-experimental method uploaded template ( 4 page A4 limit)

**Experimental method name:**

1. **Science case**
* Motivation
* Expected Impact on related research fields
* Utilization of the HEPS characteristics (high energy, high brightness, high coherence)
* Innovation
1. **Design of Experimental method**
	1. Design of Experimental method (Drawing included)
	2. X-ray requirement (Selectively input based on the method)
	* Source requirement: bending magnet, undulator, wiggler
	* Energy range
	* Photon flux required (coherent flux)
	* Energy scanning range
	* Energy resolution：monochromatic, pink beam, white beam
	* Focusing requirement
	* Coherence requirement (optional)
	* Stability requirement
	* Others
	1. Experimental conditions(Selectively input based on the method)
* Sample manipulation：Diffractometer, Rotation stage, etc.
* Sample or in-situ Sample environment: Temperature, Pressure, in-situ environment, etc.
* Stability requirement
* Detector requirement
* Data acquisition：Data generation estimation (peak GB/s, TB/day)
* Equipment control (Based on EPICS)
* Data analysis：on-line data analysis software requirement, Computing power requirement for online data analysis（CPU/GPU performance and number）
* Utilities requirement: cooling water，compressed gas，electricity，cryogenic、lifting capability, others
1. **Reference**