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**