

<b>Work package number</b>	<i>WP6</i>
<b>Activity type</b>	COORD
<b>Work package acronym</b>	SPHERE
<b>Work package title</b>	<i>Strange particles in hadronic environment research in Europe</i>

(Timelines are indicate in grey, milestones with black boxes)

TASKS/Subtasks	2009				2010				2011			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
<b>1.DEFINITION OF PHYSICS PROGRAM AT THE VARIOUS EXPERIMENTS(PHY)</b>												
1.1 Explore the role of weak decays in various nuclei which are accessible in future experiments												
1.2 Feasibility study for HYPHI						1						
1.3 Explore the physics potential of S=-2 and S=-3 systems												
1.4 Feasibility study for PANDA						2						
1.5 Explore the role of elementary processes for the production of hypernuclei in nuclear reactions												
<b>2.DETAILED PLANNING OF EXPERIMENTS(EXP)</b>												
2.1 Development of a Monte Carlo codes based on detailed physics input for the experiments												
2.2 Optimization of experimental setup for the various experiments												
2.3 Development of common analysis strategies and tools												
<b>3.NEW EXPERIMENTAL EQUIPMENT(DET)</b>												

TASKS/Subtasks	2009				2010				2011			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
3.1 Optimization of the Ge-detector setups in FINUDA and PANDA experiment						3						
3.2 Optimization of the experimental setup and tracking trigger in KAOS and HYPHI						4						
3.3 Development of Fiber detector with SiPMT readout for KAOS a. PANDA.				5								
3.4 Final design and prototype production for KAOS and PANDA								6				
<b>4. DEVELOPMENT OF NEW THEORETICAL CONCEPTS (THE)</b>												
4.1 Relation of weak decay of hypernuclei to fundamental processes of QCD												
4.2 Relation of hypernuclear observable to the free baryon-baryon force in SU(3)												
4.3 Strange mesons in hadronic systems (antikaonic systems)												
4.4 Application of hypernuclear physics to other fields of physics												

<b>Milestones</b>	
1	Feasibility study for HYPHI completed
2	Feasibility study for PANDA completed
3	Optimization of the Ge-Det.setups in FINUDA and PANDA performed
4	Optimization of the experimental setup and tracking trigger in KAOS and HYPHI performed
5	Development of fiber detector with SiPM readout for KAOS and PANDA completed
6	Final design and prototype production for KAOS and PANDA