



Status Report for April 2006

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Monthly budget, schedule and technical status report for the Memorandum of Understanding between SLAC and UCLA titled:

**Technical Addendum D to the Memorandum of Understanding between the Stanford Linear Accelerator Center and the University of California at Los Angeles**

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## Budget and Schedule Status

### ***WBS Task Deliverable Reporting***

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The WBS task deliverables and budget are defined by the MOU as shown in table 1.

WBS Number	Task Deliverables	Fund Type	Budget (K\$)	EDIA (K\$)	M & S (K\$)
2.1.1.8	FEL Physics Analysis	R & D	173.7	155.5	18.2

Table 1 WBS Deliverable Definition

Progress on each WBS task for the reporting month **April, 2006** is shown in table 2.

WBS Number	Task Deliverables	% Task Complete	% Budget Used	Scheduled Completion Date	Expected Completion Date
2.1.1.8	FEL Physics Analysis	25	17	Sep 2006	Sep 2006

Table 2 WBS Deliverable Status

## Technical Status and Planning for 2.1.1.8

### ***This Month***

By a request from the LCLS user the transverse coherence properties have to be determined by simulations. Algorithm has to be developed how to extract information, useful for the users, from the raw output of the simulations. In addition calculations have been done of the spontaneous radiations, comparing an ideal undulator field with a measured field map. The work on limitation of emittance compensation by a strong FODO lattice was brought to completion.

### ***Next Month***

- Coherence properties for LCLS pulse

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