

**LBNL FY06 GDE MOU Addendum  
Summary Sheet**

**Please Note:** “New hire” listed in these tables is the replacement hire for Andy Wolski’s position. An advertisement for this position is already posted.

**'06 TASKS PROPOSED TO CONTINUE IN FY07**

<b><u>Task</u></b>	<b><u>06 FTEs</u></b>	<b><u>Proposed 07 FTEs</u></b>	<b><u>06 Budget</u></b>	<b><u>Proposed 07 Budget</u></b>
2.1.1 Coordination of GDE-wide Damping Ring R&D	Wolski: 0.3	0	\$80 k  Note: \$68 k for this activity is paid from FY05 carryover	0
2.1.2 Coordination of Accelerator Effort at LBNL	Wolski: 0.15 Zisman: 0.05 Celata: 0.10  Total FTE: 0.30  Work package leader: Zisman	New hire: 0.20 Celata: 0.15  Total FTE: 0.35  Work package leader: new hire	\$51 k	\$126 k
2.5.1 Damping Ring Injection & Extraction Beamline Design & Characterization	Reichel: 0.20  Work package leader: Wolski, succeeded by Zisman	Reichel: 0.30 New hire: 0.20  Work package leader: new hire	\$2 k  (Reichel paid by base program)	\$156 k

2.5.2 Damping Ring Beam Dynamics: Dynamic Aperture	Zisman: 0.05 Steier: 0.05 Wan: 0.05 Reichel: 0.20 Penn/new hire: 0.15  Total FTE: 0.50  Work package leader: Zisman	New hire: 0.50 Reichel: 0.20 Steier: 0.05 Wan: 0.05  Total FTE: 0.80  Work package leader: new hire	\$84 k	\$248
2.5.3 Damping Ring Beam Dynamics: Collective Effects	Venturini: 0.80 Zisman: 0.05  Total FTE: 0.85  Work package leader: Zisman	Venturini: 0.70 Celata: 0.85 Vay: 0.10 Byrd: 0.10 Visiting faculty: 0.25 Summer student  Total FTE: 2.0 plus summer student  Work package leader: new hire	\$232 k	\$585 k
3.2.1 Development of Universal Accelerator Parser	Bates: 0.50 (GSRA)  Work package leader: Wolski, succeeded by Zisman	Bates: 0.5 (GSRA)  Work package leader: new hire	\$20 k	\$21 k
5.5.1 Development of Injection/Extraction Kickers at KEK-ATF	DeSantis: 0.15  Work package leader: Byrd	DeSantis: 0.15  Work package leader: Byrd	\$45 k	\$55 k

5.5.2 Studies of Beam Dynamics at KEK-ATF	DeSantis: 0.05 Wolski: 0.10  Total FTE: 0.15  Work package leader: Wolski	DeSantis: 0.10 New hire: 0.10  Total FTE: 0.20  Work package leader: new hire	\$44 k	\$73 k
5.5.3 Damping Rings Studies at LBNL-ALS	Byrd: 0.05 Venturini: 0.20  Total FTE: 0.25  Work package leader: Byrd	Byrd: 0.10 DeSantis: 0.10 Venturini: 0.20 Postdoc: 0.35  Total FTE: 0.75  Work package leader: Byrd	\$70 k  Note: \$60 k for this activity is paid from FY05 carryover	\$192 k

**NEW TASKS PROPOSED FOR FY07**

<b><u>Task</u></b>	<b><u>06 FTEs</u></b>	<b><u>Proposed 07 FTEs</u></b>	<b><u>06 Budget</u></b>	<b><u>Proposed 07 Budget</u></b>
2.5.4 Damping Ring Vacuum Systems Design	0	Marks: 0.50 Plate: 0.25  Total FTE: 0.75  Work package leader: Schlueter	0	\$234 k

2.5.5 Damping Rings Mechanical Systems Design & Integration	0	Schlueter: 0.10 Marks: 0.15 Plate: 0.25  Total FTE: 0.5  Work package leader: Schlueter	0	\$156 k
2.5.6 Multibunch Impedance-estimates and effects of injected bunches on damped bunches	0	Byrd: 0.20 Postdoc: 0.35  Total FTE: 0.55  Work package leader: Byrd	0	\$125 k
2.5.7 Development of Transverse Broadband Multi-bunch Feedback Systems for Damping Rings	0	Barry: 0.25 Byrd: 0.10 Doolittle: 0.10  Total FTE: 0.45  Work package leader: Barry	0	\$149 k
2.5.8 Damping Ring Low Emittance Tuning	0	Penn: 0.50 Reichel: 0.25  Total FTE: 0.75  Work package leader: new hire	0	\$234 k

2.5.9 Characterize the Effects Of Transients During The Injection/ Extraction Process On the Damped Bunches	0	Penn: 0.5 Work package leader: new hire	0	\$153 k
2.7.1 Development of Superconducting Magnets for the IR	0	Sabbi: 0.05 Caspi: 0.05 Ferracin: 0.20 Postdoc: 0.50  Total FTE: 0.80  Work package leader: Sabbi	0	\$186 k
3.4.1 Design of an Undulator for the Positron Source	0	Caspi: 0.20 Dietderich: 0.05 Marks: 0.05 Prestemon: 0.20  Total: 0.5 FTE  Work package leader: Sabbi	0	146
3.5.1 Higher-Order Beam Diagnostics and Tune Monitor	0	Barry: 0.15 Byrd: 0.05  Total FTE: 0.20  Work package leader: Barry	0	\$71 k

3.6.1 Low-level RF and RF Signal Distribution (Timing and Synchronization)	0	Byrd: 0.20 Doolittle: 0.35 Wilcox: 0.15 Postdoc: 0.30  Total FTE: 1.0  Work package leader: Ratti	0	\$286 k
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**Total FY06: \$628 k**

**Total FY07 Request: \$3.196 M**