

## **BaBar Tier A Computing Center MoU**

### Introduction

The projected rapid rise of PEP-II luminosity will give rise to increasing BaBar computing needs. To meet these needs, the BaBar collaboration has adopted a new computing model with at least two main computing centers (each called a Tier A center) sharing the provision of resources for the whole collaboration. This model was endorsed by the October, 2000, BABAR Technical Review Committee. Given the importance and complexity of the subject and its large financial implications, the implementation of this computing model requires a formal MoU. This MoU provides the general framework; specific addenda will be written for each Tier A contribution.

### Purpose

The implementation of the BaBar computing model with at least two Tier A centers will be covered by this MoU between SLAC and all the non-US BaBar funding agencies.

### Tier A Framework

1. Tier A centers offer access to all BaBar members, according to the governance and policies of the BABAR collaboration. Any partition of BaBar computing activities between Tier A centers will be decided by the BaBar collaboration.
2. The funding agencies contributing to the Tier A centers outside SLAC will receive a credit against their contribution to BABAR common funds. The maximum value of this credit will be determined each year as the difference between the cost of the BaBar computing facilities needed at SLAC in the absence of the Tier A centers and the predicted expenditure at SLAC taking the Tier A contributions into account. These cost estimates will be computed by the Babar Computing Steering Committee and submitted for approval to the International Finance Committee.

A Tier A contribution reduces the total common fund support to be requested from the funding agencies. On the other hand, the credit for the countries providing the Tier A centers increases the common fund support requested from those countries not providing Tier A centers. Therefore

the credit will be limited to an amount ensuring that at least 50% of the Tier A center value contributes to the common fund reduction.

3. It is the intention that Tier A centers shall be maintained for the life of the BaBar Collaboration. Proposals for Tier A centers will be considered for approval by the IFC. Each approved Tier A center will be governed by a separate MoU between SLAC and the funding agency responsible, specifying the initial resources to be made available, and including explicit provisions for the advance warning and transition mechanisms should the commitment be terminated before the end of the BaBar Collaboration.
4. Each approved Tier A center will produce annually as an addendum to the MoU a five-year plan describing the minimum average level of resources available to the BaBar collaboration (in terms of CPU, disk and tape storage volume, network and dedicated manpower). This plan will be reviewed each year by the BaBar Computing Steering Committee and will be submitted for approval to the International Finance Committee. Yearly review of the execution of the plan will be made by the IFC on the next year.
5. The BaBar Computing Steering Committee will be established. It will supervise this MoU and ensure the necessary contacts between BaBar and the various Tier A centers. The Steering Committee will report via the SLAC Research Director to the International Finance Committee. The detailed charge and membership of the Steering Committee is described in appendix SC-1.

\_\_\_\_\_ Date : \_\_\_\_\_

Jonathan Dorfan

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\_\_\_\_\_ Date : \_\_\_\_\_

FirstName LastName

Title

Funding Agency