CDF-II Memorandum of Understanding
among the
Fermi National Accelerator Laboratory,
the CDF-II Collaboration
and The University of Roma "La Sapienza" & INFN Sez. Di Roma

I. Personnel and Coordination of Responsibilities

A. The following members of the University of Roma "La Sapienza'' and Istituto Nazionale di Fisica Nucleare are presently participants in the collaboration. The present level of commitment is expected to remain stable until the end of FY2006 to decline gradually especially at the permanent position levels to allow increased participation to upcoming experiment at LHC and neutrino experiments. We will continue to be active in the data physics analysis at least through 2008.

Name	Title	Usual Location	Total CDF Fraction	Other Commitments
Carlo Dionisi	Professor	Roma	60%	Teach, Atlas
Pierferruccio Loverre	Professor	Roma	50%	Teach, T2K
Lucia Zanello	Professor	Roma	50%	Teach, Atlas
Daniele De Pedis	Physicist	Roma	50%	Atlas
Maurizio Iori	Physicist	Roma	100%	Teach
Stefano Giagu	Physicist	Roma	100%	Teach
Marco Rescigno	Physicist	Roma	100%	
Sandro De Cecco	Post doc	Fermilab	100%	
Andrea Messina	Post-doc	Fermilab	100%	
Daniel Jeans	Post-doc	Roma	100%	CDF/GRID
Subir Sarkar	Post-doc	Bologna	100%	CDF/GRID
Giuseppe Salamanna	Phd Student	Roma	100%	
Paolo Mastrandrea	Phd Student	Roma	100%	
Francesco Biccari	Student	Roma	100%	
Benedetto di Ruzza	Student	Roma	100%	
Gianluca de Lorenzo	Student	Roma	100%	
Chiara Ferrazza	Student	Roma	100%	

B. The coordinator for the University of Roma is C. Dionisi and the representative on the CDF-II Executive Board is C. Dionisi. The alternative members for the Executive Board are M.Rescigno, S. Giagu, L.Zanello and M.Iori. Each participating CDF-II institution has one member on the CDF-II Executive Board.

II. Responsibilities of The University of Roma "La Sapienza" & INFN Roma

A. Project: TOF HV System

1. Responsible for the maintenance of the TOF HV hardware (CAEN SY527 HV system). Specifically it will be care of Roma to maintain an appropriate set of working spare parts and to periodically check the calibration and performance of the HV system. This task will be performed during shutdown periods and in case of accidental occurrence. Presently D. de Pedis, S.Giagu, S. de Cecco.
2. Until 2006 Roma will provide one person (S. de Cecco) permanently based at Fermilab to ensure the operation of the TOF HV system and the relative software also carrying the general TOF pager on a rotating basis. After 2006 we will no longer provide lab based personnel. Knowledgeable people to provide for remote assistence or come to the lab in emergency will be available within the CDF Rome group. The Lab or other groups in the collaboration will provide sufficiently skilled personnel for spare replacement when needed and to arrange for repairs. Roma will continue to be financially involved with the cost of repairs and parts replacement. Roma no longer guarantee an upgraded system should for any reason CDF or Lab management decide for a new system.
3. Responsible for the maintenance of the monitoring code of the above system. In particular it will be responsibility of Roma to keep the code to the current level of efficiency and functionality but will not support any significant change in the CDF slow control system.

B. Project: SVT Online Monitoring (SPYMON)

1. Responsible for the implementation and maintenance of part of the SVT online code (SPYMON): presently M.Rescigno and S. Sarkar.

C. Project: SVT Upgrade

1. The Roma group is involved in the SVT upgrade to allow continued and improved performance of SVT online monitoring capabilities: presently M.Rescigno and B. di Ruzza. A new version of the software

will be delivered by summer 2005 and we will continue to support it through the next years (M. Rescigno). However we plan to train more people outside our group, in order to guarantee a reliable operation of the SVT despite the decreasing level of commitement of senior Rome staff. We no longer guarantee an upgraded system should for any reason CDF or the Lab management decide to significantly change the online infrastructure.

D. Project: CPR2

1. Roma will share responsibility for the maintenance of the preshower counter subsystem, ensuring the continued functionality of the detector and its integration in the CDF detector and DAQ. Presently: M.Iori
2. M.Iori will be available to act as on – call expert for this system for the time he can spend at the lab, currently estimated as a period of 3 months per year in several trips.

E. Project: GRID computing technologies for CDF

1. Development of GRID compatible monitoring tools and deployment in the CDF software environment; development and maintenance of a decentralized CAF facility in CNAF/Bologna and integration with general GRID: presently S.Sarkar, D.Jeans.

F. Offline Activities

1. Responsible of the physics calibration of the dE/dx measurement for particle identification in the COT. This task will evolve in to the release of a semi-automated procedure: presently S.Giagu.
2. Responsible for the design and maintenance of B-physics oriented software packages like CharmMods. By 2006 expect software packages will not need further significant development: presently S. Giagu.
3. MC generators study and implementation for multi-parton final states: presently A.Messina.
4. High Pt b-tagging algorithm development and maintenance: presently D.Jeans.

G. Offline Representative

S.Giagu

H. Deliverables

I. Operational Activities

1. Phd students and Post-docs will act as DAQ Aces.

CDF-II Memorandum of Understanding
among the
Fermi National Accelerator Laboratory,
the CDF-II Collaboration
and The University of Roma "La Sapienza" & INFN Sez. di Roma

_____	_____
Fermilab Directorate	date
_____	_____
CDF-II Detector Operations Department Head	date
_____	_____
CDF-II Detector Operations Department Head	date
_____	_____
CDF-II Offline Operations Organization Head	date
_____	_____
CDF-II Offline Operations Organization Head	date
_____	_____
CDF-II Spokesperson	date
_____	_____
CDF-II Spokesperson	date
_____	_____
Coordinator for the University of Roma	date