TIPO	PI	INSTITUTION	COLLABORATORI	TITOLO	BUDGET
A	SANNINO Gianmaria	ENEA		Evaluating the effects produced by tides on mthc	400000
A	SORELLA Sandro	SISSA	CASULA Michele, AZADI Sam	Magnetism and high temperature superconductivity in pnictides	600000
A	PIETROPAOLO Adriana	Universita' di Catania		Environment effects on the efficiency of open-closure enzyme mediated mechanisms	200000
A	DOVESI Roberto	Università di Torino	MASCHIO Lorenzo, FERRABONE Matteo, ORLANDO Roberto, DEMICHELIS Raffaella, LACIVITA Valentina	Quantum Mechanical ab initio Simulation of Carbon and Inorganic nanotubes	600000
A	PIROZZOLI Sergio	Universita di Roma 'La Sapienza'	ORLANDI Paolo, BERNARDINI Matteo	Analysis of WAll Roughness influence on boundary layers Dynamics	600000
A	MACCHI Andrea	CNR, Istituto Nazionale di Ottica, Italy	LISEYKINA Tatyana, TOMASSINI Paolo, LONDRILLO Pasquale, BENEDETTI Carlo, SGATTONI Andrea, TAMBURINI Matteo	TOWARDS FULL-SCALE SIMULATIONS OF LASER-PLASMA EXPERIMENTS	300000
A	BIFERALE Luca	university tor vergata	TOSCHI Federico	Particle dispersion from point sources in turbulent flows	800000
A	LAIO Alessandro	SISSA	BAFTIZADEH Fahimeh, BIARNES Xevi	Simulation of polypeptide aggregation in explicit solvent by bias-exchange metadynamics	200000
A	SOLDATI Alfredo	Università degli Studi di Udine	MARCHIOLI Cristian	Mixing in non-Homogeneous Shear Flows: Highly-Parallel Direct Numerical Simulations with Diffuse Interface Model	400000
A	UGLIENGO Piero	University Torino	CHIATTI Fabio, DELLE PIANE Massimo, RIMOLA Albert, MUSSO Federico, CORNO Marta, CIVALLERI Bartolomeo	Large Scale B3LYP-D simulation of silica-based carriers for drug delivery	553000
A	ZEN Andrea	University of Roma "La Sapienza"	BARBORINI Matteo, GUIDONI Leonardo, VARSANO Daniele, AVALLE Michele, SORELLA Sandro, AZADI Sam	Ab initio molecular dynamics of liquid water by quantum Monte Carlo.	600000
A	VARGIU Attilio	Istituto Officina dei Materiali (IOM) del Consiglio Nazionale delle Ricerche (CNR), Unita' Operativa SLACS	RUGGERONE Paolo, COLLU Francesca	Addressing resistance mechanisms in Gram-negative bacteria: molecular modeling of influx and efflux of antibiotics	733000
A	DI FELICE Rosa	CNR	BELLUCCI Luca, BRANCOLINI Giorgia, CORNI Stefano	Simulating protein unfolding under pulling force	455000
A	TORDELLA Daniela	Politecnico di Torino	IOVIENO Michele, ABBA' Antonella, SCARSOGLIO Stefania, DE SANTI Francesca, DUCASSE Lauris	Turbulent mixing and diffusion	300000
B	BERNASCONI Marco	University of Milano-Bicocca	MANDELLI Davide, SOSSO Gabriele Cesare, CARAVATI Sebastiano	First principles study of metal/semiconductor junctions in phase change memory cells	120000
B	MOGLIE Franco	Universita` Politecnica delle Marche	MARIANI PRIMIANI Valter, PASTORE Anna Pia	FDTD simulations of electromagnetic reverberation chambers	75000
B	TOTTI Federico	Univeristy of Florence		Atomistic structure of [Mn6] single molecule magnets on Au(111)	100000
B	BAGNO Alessandro	Universita' di Padova	RAVELLI Davide, SAIELLI Giacomo, DONDI Daniele	Electronic Spectra of Polyoxometalates	100000
B	ROSINI Marcello	Universita di Modena e Reggio Emilia	MAGRI Rita, GUPTA Sanjeev	First-principles design of nanowire nanosensors	133500
B	ESPOSTI ONGARO Tomaso	Istituto Nazionale di Geofisica e Vulcanologia		Topographically-controlled pyroclastic flows at Campi Flegrei volcano - Italy	60000
B	RONTANI Massimo	CNR-Istituto di Nanoscienze	SECCHI Andrea, TOROZ Dimitrios	Few-Fermion Systems: Atom Traps and Carbon Nanostructures	76800
B	SIRONI Maurizio	Universita' di Milano	RENDINE Stefano, PIERACCINI Stefano	In silico design of drug-like molecules modulating protein-protein interactions	75000
B	CALIFANO Francesco	University of Pisa	VALENTINI Francesco, FAGANELLO Matteo	3D spontaneous magnetic reconnection driven by a sheared flow in a magnetized plasma	100000
B	BENASSI Enrico	Centro S3, CNR Istituto di Nanoscienze	BRANCOLINI Giorgia, CORNI Stefano, PIPOLO Silvio	Structural and Optical Properties of Azo-derivatives Self assembled monolayers on gold surfaces	70000
B	ROSCIONI Otello Maria	Universita' di Bologna		Surface-induced ordering effect of the isotropic phase of a liquid-crystal investigated by molecular dynamic simulations.	80000
B	NICODEMI Mario	Universita' di Napoli "Federico II"	SCIALDONE Antonio, BARBIERI Mariano	Models of Statistical Mechanics for X Chromosome silencing	100000
B	FRAGALà Ignazio	University of Catania	MOTTA Alessandro	Catalytic Properties of Functionalized Surface and Molecular Systems	64000
B	D'ORAZIO Antonella	Politecnico di Bari	GRANDE Marco, MARANI Roberto, MARROCCO Valeria, MOREA Giuseppe	Plasmonic Nanostructures for Enhanced Light Absorption	75000
B	BORGANI Stefano	University of Trieste	DOLAG Klaus, RASIA Elena, SARO Alexandro, TORMEN Giuseppe, DE LUCIA Gabriella, FABJAN Dunja, MURANTE Giuseppe, TORNATORE Luca	Cosmological Simulations of a Large Sample of Massive Galaxy Clusters	95000
B	LA ROSA Carmelo	University of Catania	PANNUZZO Martina	MD simulations of the early steps of Islet Amyloid Polypeptide (IAPP) aggregation: molecular pathways to Type 2 Diabetes pathogenesis.	71700
B	DEGOLI Elena	Universita' di Modena e Reggio Emilia, Facolta' di Ingegneria II	OSSICINI Stefano, PULCI Olivia, SPALLANZANI Nicola	PbS/PbSe nanOcrystaL-C60 heterojunction Assemblies foR photovoltaic applications: a first principlEs study	150000
B	TRANI Fabio	Scuola Normale Superiore di Pisa	CARNIMEO Ivan, PEDONE Alfonso, BICZYSKO Malgorzata	Functionalized Silicon Nanoparticles for Biosensing Applications: a Theoretical Multilevel Approach	100000
B	CALZOLARI Arrigo	CNR-IOM Istituto Officina dei Materiali	RUINI Alice, CATELLANI Alessandra	core-Shell vs longitudinal heterostructures: QUantum confinEment Effects in ZnS/ZnO nanowirEs	110000
B	FABRIS Stefano	CNR-IOM DEMOCRITOS	PICCININ Simone, MA Changru	Catalysis for water oxidation	130000
B	PERESSI Maria	Universita' di Trieste	BALDERESCHI Alfonso, DUAN Xiangmei, RIZZI Michele	CO2 activation and hydrogenation on Ni-based catalysts: an atomic-scale investigation by ab-initio calculations	80000
B	AMORE BONAPASTA Aldo	Consiglio Nazionale delle Ricerche - CNR	---- form non iniziato o non chiuso ----	Magnetic behaviour of metallo organic (phthalocyanine) molecules coupled to inorganic semiconductors	100000
B	GUERRA Roberto	Universita' di Modena e Reggio Emilia	OSSICINI Stefano	Interacting Nanocrystals in Si/SiO2 Systems: From Quantum Dots to Quantum Networks	115000
B	PINI Giorgio	Universita' degli Studi di Padova	JANNA Carlo, MARTINEZ Angeles, BERGAMASCHI Luca, FERRONATO Massimiliano	Parallel preconditioners for large scale engineering applications	60000
B	ROZZI Carlo Andrea	CNR	SPALLANZANI Nicola, AMATO Michele, PREZZI Deborah	Time-dependent investigation of optical and charge-transfer properties of a supra-molecular photovoltaic universal joint	100000
B	LA PENNA Giovanni	National research council	FURLAN Sara	Metal ions and structural disorder in biological molecules	25000
B	GUIDONI Leonardo	University of L'Aquila	MATTIOLI Giuseppe, BOVI Daniele, MONTAGNA Maria, VARSANO Daniele, DI PAOLO Gaia, COCCIA Emanuele	Water Splitting Mechanism on a Cobalt-Based Catalyst	100000

B	FORNI Alessandra	CNR		Fine tuning of linear and nonlinear optical properties of organic chromophores self-assembled through halogen bonding	75000
B	CECCARELLI Matteo	University of Cagliari		Structure-Function paradigm in Human Myoglobins via Molecular Dynamics Simulations	120000
B	PACCHIONI Gianfranco	University of Milano Bicocca	---- form non iniziato o non chiuso ----	Doped and nanostructured oxides for catalytic and photocatalytic applications	40000
B	BUSSI Giovanni	Scuola Internazionale Superiore di Studi Avanzati - SISSA	COLIZZI Francesco	In silico RNA manipulation	100000
B	STENER Mauro	Universita' di Trieste	DECLEVA Piero, FRONZONI Giovanna	Transition metal compounds: resonances in photoionization.	130000
B	SALVETTI Maria Vittoria	Università di Pisa	BILANCERI Marco, CAMARRI Simone, GROZESCU Annabella, BEUX François	Numerical Simulation and Stability Analysis of Bluff-Body wakes.	60000
B	SELMI Luca	Università degli Studi di Udine	ESSENI David, DRIUSSI Francesco, PALESTRI Pierpaolo, VIANELLO Elisa, GAMBI Alberto, PAUSSA Alan	ASSIEME (Together): Atomistic Simulation for SIlicon nitridE charge trap Memory Engineering	50000
B	FORTUNELLI Alessandro	Consiglio Nazionale delle Ricerche (CNR)	THOMAS Iorwerth Owain, SEMENTA Luca, NEGREIROS Fabio	The electronic properties of oxide ultrathin films	128000
B	GIANNOZZI Paolo	Universita' di Udine	SUN Tao, DE GIRONCOLI Stefano, KUCUKBENLI Emine, GHADERI Nahid, NGUYEN Ngoc Linh, LEVITA Giacomo, SABATINI Riccardo, PERESSI Maria	Nanocatalysis	96000
B	PIZZIRUSSO ANTONIO	UNIVERSITA' DI BOLOGNA	---- form non iniziato o non chiuso ----	A molecular dynamics investigation of the ALignment mechanism of BIphenyl in 4-octyl, 4' cyanobiphenyl	90000
B	CORNI Stefano	CNR Institute of Nanoscience	BRANCOLINI Giorgia, SIWKO Magdalena, PIPOLO Silvio, TOROZ Dimitrios	Modeling protein-surface interactions: quantum mechanical and classical molecular dynamics simulations to study proteins on gold surfaces.	80000
B	MANCINI Ferdinando	Università di Salerno	PLEKHANOV Evgeny	Band suppresion in a multi-orbital strongly correlated electron system	92200
B	FIERRO Annalisa	CNR	PICA CIAMARRA Massimo, ABETE Tiziana	Heterogeneities and Anomalous Diffusion: from Gels to Glasses	98500
B	CATELLANI Alessandra	CNR-IMEM	CALZOLARI Arrigo	Ab Initio diffusion of Dopants in oxides	120000
B	GAUTIERI Alfonso	Politecnico di Milano		Theoretical Multi-scale studies of Collagen tissues in the context of Osteogenesis Imperfecta disease	107500
B	VELTRI Pierluigi	Università della Calabria	VALENTINI Francesco, PERRONE Denise	Solar wind ALpha Particle Heating through Vlasov Eulerian Numerical simulations	150000
B	HOGAN Conor	CNR-INFM-SMC and ETSF	MARINI Andrea, PALUMMO Maurizia, FERRARO Elena	Ab-initio surface spectroscopy for innovative technologies	60000
B	IENCO Andrea	Istituto di Chimica Composti OrganoMetallici ICCOM-CNR	MEALLI Carlo, MANCA Gabriele	Computational Studies on Metal Cluster Chemistry	40000
B	MIGLIORE Michele	CNR	HINES Michael, MCTAVISH Thomas	Neuronal computations: from cognition to neuropathologies	90000
B	CARDINI Gianni	Firenze	GIBERTI Federico, MUNIZ MIRANDA Francesco, PAGLIAI Marco	Ab-initio molecular dynamics of molecular systems under pressure	80000
B	BOFFETTA Guido	University of Torino	---- form non iniziato o non chiuso ----	Turbulence under strong stratification	80000
B	FERRARI Anna Maria	torino	---- form non iniziato o non chiuso ----	PROPERTIES AND PHASE TRASFORMATION OF TIO2 NANOLAYERS	120000
B	ROSSI Paola	INAF Osservatorio Astronomico di Torino	TESILEANU Ovidiu, BODO Gianluigi, MASSAGLIA Silvano	How do the butterflies fly? 3D simulations of X-shape radiogalaxies	90000
B	CONTI Claudio	ISC-CNR	FOLLI Viola	First principles simulations of Anderson localization of light including nonlinear effects	100000
B	LANZA Giuseppe	Universita' di Catania		Theoretical mechanicistic study of nucleosidation reactions	20000
B	STRINATI CALVANESE Giancarlo	University of Camerino	PERALI Andrea, GIROTTI Serena, PIERI Pierbiagio, PALESTINI Fabrizio	Novel quantum phases, phase diagram, and fluctuation phenomena of ultracold Fermi gases: A numerical diagrammatic approach.	120000
B	FRIGIO Sandro	Università di Camerino		Blow up of hydrodynamic equations in a finite time	50000
B	CANTELE Giovanni	CNR-SPIN and University of Napoli "Federico II"	BORRIELLO Ivo, D'AMICO Nunzio Roberto	GRAphene and metal-organic interfaCEs: insights from First principles calcULations	100000
B	RUINI Alice	University of Modena and Reggio Emilia	COCCHI Caterina, CALZOLARI Arrigo, MARTIN-SAMOS Layla, MARION JORGE Leonardo Matheus	oPtoelectronic beHavior Of TiO2 Nanoparticles upon organic functionalization	65000
B	PALUMMO Maurizia	Universita' di Roma Tor Vergata	OSSICINI Stefano, GUERRA Roberto, AMATO Michele	A New Perspective in Semiconductor Nanoscience: Optoelectronic Properties of SiGe Alloyed Nanocrystals and Nanowires	136100
B	SCORCIAPINO Mariano Andrea	Università di Cagliari	MARSELLA Luca, VARGIU Attilio, RUGGERONE Paolo	Study of the interaction between antimicrobial peptides and lipid bilayers. The effect of surface charge on peptides binding and aggregation.	100000