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EUSO Abbreviations and Acronyms List

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1. Introduction

This document aims to collect all abbreviations, acronyms and glossaries of terms that will be used in the EUSO Mission, at least during Phase A.

1.1 Scope

The scope of this document is to define applicable abbreviations and acronyms for all EUSO items and parts, at least during Phase A.

The list will not cover abbreviations for units and dimensional measurements.

The list would be a living and controlled document in order to do not invent new abbreviations and acronyms for the same subject in use. New abbreviations and acronyms will be however added whenever necessary.

1.2 List Explanation

The list is structured in three fields named "Abbreviation or Acronym", "Nomenclature or Meaning", and "Remarks".

The first two columns ("Abbreviation or Acronym" and "Nomenclature or Meaning") are considered self-explanatory; the third column ("Remarks") has to be used to introduce further explanation or clarification.



2. Acronyms and Abbreviations

The Acronyms and Abbreviations are listed hereafter following alphabetic order.

| Abbreviation or Acronym | Nomenclature or Meaning | Remarks |
|-------------------------|--|---------|
| AC | Adjudication Committee | |
| AD | Applicable Document | |
| ADM | The Atmospheric Dynamics Mission | |
| AFEE | Analog Front End Electronics | |
| AGASA | Akeno Giant Air Shower Array | |
| AI | Action Item | |
| AIRES | AIR-shower Extended Simulations SW | |
| AIT | Assembly Integration and Test | |
| AIV | Assembly Integration and Verification | |
| AME | Analog Macrocell Electronics | |
| ANSI | American National Standards Institute | |
| AO | Announcement of Opportunity | |
| APC | AstroParticle and Cosmology Laboratory in Paris (France) | |
| APD | Applicable Document, Approved Document | |
| AS | Atmosphere Sounding | |
| ASAP | As Soon As Possible | |
| ASI | Agenzia Spaziale Italiana (Italy) | |
| ASIC | Application Specific Integrated Circuit | |
| ATLID | Atmospheric Lidar | |
| AW | AirWatch | |
| AWG | Astrophysics Working Group (ESA) | |
| BABY | Background Bypass | |
| BJ | Blue Jet | |
| BKG | Background | |
| BS | Blue Starter | |
| CBR | Cosmic Background Radiation | |
| CDF | College de France (France) | |
| CDH | Control & Data Handling | |
| CEPF | Columbus External Payload Facility | |



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|---------|--|--|
| CERN | European Organization for Nuclear Research | |
| CMB | Cosmic Microwave Background | |
| CN | Cosmic Neutrino | |
| CNB | Cosmic Neutrino Background | |
| CNES | Centre National d'Etudes Spatiales (France) | |
| CNR | Consiglio Nazionale delle Ricerche (Italy) | |
| CNRS | Centre Nationale de la Recherche Scientifique (France) | |
| CO | Communication & Outreach | |
| COF | Columbus Orbital Facility | |
| Col | Co-Investigator | |
| CORSIKA | COsmic Ray Simulations for KAscade | |
| CR | Cosmic Ray | |
| CR | Cosmic Radiation | |
| CVS | Concurrent Version System | |
| CW | Continuous Wave | |
| CWPR | Continuous Wave Pseudo Random | |
| CYTOP | Amorphous Peffluoro Alkenylvinylether | |
| DB | DataBase | |
| DBMS | DataBase Management System | |
| DCE | Digital Control Electronics | |
| DFEE | Digital Front End Electronics | |
| DM | Dark Matter | |
| DMS | Data Management System | |
| D/MSM | Directorate of Manned Spaceflight and Microgravity (ESA) | |
| D/SCI | Directorate of Science (ESA) | |
| DSRI | Danish Space Research Institute (Denmark) | |
| EAFEE | EUSO Analog Front End Electronics | |
| EAL | Earth Atmospheric LIDAR | |
| EAL | EUSO Atmosphere LIDAR | |
| EAS | Extended Air Shower | |
| ECO | EUSO Communication and Outreach | |
| EDFEE | EUSO Digital Front End Electronics | |
| EE | Extreme Energy | |
| EECR | Extreme Energy Cosmic Ray | |



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|-------|--|--|
| EFEE | EUSO Front End Electronics | |
| EFS | EUSO Focal Surface | |
| EGS | EUSO Ground Segment | |
| EGSE | Electrical Ground Support Equipment | |
| EGSE | EUSO Ground Support Equipment | |
| EMC | Electro Magnetic Compatibility | |
| EMI | Electro Magnetic Interference | |
| EOM | EUSO Optics Module | |
| EPD | Entrance Pupil Diameter | |
| EPF | External Payload Facility (COF) | |
| EPO | Education and Public Outreach | |
| ESA | European Space Agency | |
| ESD | Electro Static Discharge | |
| ESDA | EUSO Scientific Data Analysis | |
| ESIM | EUSO Simulations | |
| ESODC | EUSO Science Operations and Data Center | |
| EST | EUSO System and Structural and Thermal Control | |
| ESTEC | European Space Technology Center (ESA) | |
| ETEO | EUSO Trigger and read-out Electronics & OBDH | |
| EUSO | Extreme Universe Space Observatory | |
| EVA | Extra Vehicle Activity | |
| FADC | Fast Analog-to-Digital Converter | |
| FAQ | Frequently Asked Question | |
| FE | Front End | |
| FEE | Front End Electronics | |
| FF | Free Flyer | |
| FIRE | Fluorescence Image Read-out Electronics | |
| FITS | Flexible Image Transfer System | |
| FM | Flight Model | |
| FoV | Field of View | |
| FP | Focal Plane | |
| FPAG | Fundamental Physics Advisory Group (ESA) | |
| FRC | Facility Responsible Center (ESA) | |
| FS | Flight Segment | |



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|-------|---|--|
| FS | Focal Surface | |
| FSD | Focal Surface Detector | |
| FTP | File Transfer Protocol | |
| GIS | Geographic Information System | |
| GLAS | Geoscience Laser Altimeter System | |
| GPS | Global Positioning System | |
| GRB | Gamma Ray Burst | |
| GS | Ground Segment | |
| GSE | Ground Support Equipment | |
| GSOC | German Space Operations Centre (ESA) | |
| GTU | Gate Tim Unit | |
| GUT | Grand Unified Theories | |
| GZK | Greisen - Zatsepin – Kuzmin (effect) | |
| HECR | High Energy Cosmic Ray | |
| HiRes | High Resolution Fly's Eye Cosmic Ray Observatory | |
| HK | Housekeeping | |
| HQ | Head Quarter | |
| HTML | Hyper Text Markup Language | |
| HTTP | Hyper Text Transport Protocol | |
| H/W | Hardware | |
| IAP | Institut d'Astrophysique de Paris (France) | |
| ICD | Interface Control Document | |
| ICRC | International Cosmic Rays Conference | |
| ICRR | Institute for Cosmic Ray Research (Japan) | |
| IDD | Instrument Definition Document | |
| IDL | Interactive Data Language | |
| I/F | Interface | |
| IFCAI | Istituto di Fisica Cosmica con Applicazioni all'Informatica (Italy) | |
| IM | Instrument Manager | |
| IN2P3 | Institute National de Physique Nucléaire et de Physique des Particules (France) | |
| INFN | Istituto Nazionale di Fisica Nucleare (Italy) | |
| I/O | Input/Output | |
| IP | Internet Protocol | |
| IPC | Industrial Policy Committee | |



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|--------|--|--|
| IPN | Institut de Physique Nucléaire, Orsay (France) | |
| IR | InfraRed | |
| ISM | InterStellar medium | |
| ISN | Institut des Sciences Nucléaires (France) | |
| ISNG | Institut des Sciences Nucléaires de Grenoble (France) | |
| ISS | International Space Station | |
| IT | Integration & Testing | |
| ITT | Invitation To Tender | |
| IWG | Instrument Working Group | |
| JEM | Japanese Experiment Module (on ISS) | |
| KO | Kick Off | |
| LAN | Local Area Network | |
| LAPTH | Laboratoire d'Annecy-le-Vieux de Physique Théorique (France) | |
| LAPP | Laboratoire d'Annecy-le-Vieux de Physique des Particules (France) | |
| LBL | Lawrence Berkeley Laboratory (USA) | |
| LEO | Low Earth Orbit | |
| LIDAR | Llght Detection And Ranging | |
| LIP | Laboratório de Instrumentação e Física Experimental de Partículas (Portugal) | |
| LPNHE | Laboratoire de Physique Nucléaire et de Hautes Energies (France) | |
| LPNHEP | LPNHE in Paris (France) | |
| MAPMT | Multi Anode Photo Multiplier Tube | |
| MGSE | Mechanical Ground Support Equipment | |
| MIME | Multipurpose Internet Mail Extensions | |
| MIS | Miscellanea | |
| MO | Mission Opportunity | |
| MoA | Memorandum of Agreement | |
| MOC | Mission Operation Centre | |
| MoM | Minutes of Meeting | |
| MoU | Memorandum of Understanding | |
| MSFC | Marshall Space Flight Center (NASA) | |
| MSM | Manned Spaceflight and Microgravity (ESA) | |
| NAO | National Astronomical Observatory (Japan) | |
| NASA | National Aeronautics and Space Administration (USA) | |
| NASDA | National Space Development Agency (Japan) | |



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|-------|---|--|
| NFS | Network File System | |
| NIR | Near InfraRed | |
| NSSDC | National Space Science Data Center (USA) | |
| NUV | Near UltraViolet | |
| OBC | OnBoard Computer | |
| OBDH | On Board Data Handling | |
| OBT | OnBoard Time | |
| OdP | Observatoire de Paris (France) | |
| OLA | Off Line Analysis | |
| OO | Object Oriented | |
| OSS | Office of Space Science (NASA) | |
| OTD | Optical Transient Detector | |
| OUST | On-board Unit System Trigger | |
| PA&S | Product Assurance and Safety | |
| PCB | Printed Circuit Board | |
| PDM | Photo Detector Module | |
| PDU | Power Distribution Unit | |
| PFM | Proto-Flight Model | |
| PI | Principal Investigator | |
| P/L | Payload | |
| PM | Project Manager | |
| PM | Programme Manager | |
| PM | Progress Meeting | |
| PMMA | Poly Methyl Metha Acrylate | |
| PMT | Photo Multiplier Tube | |
| PRN | Pseudo-Random Noise | |
| PS | Project Scientist | |
| QL | Quick Look | |
| RD | Requirements Document | |
| R&D | Research and Development | |
| REP | Report (report, technical note, ...) | |
| RFQ | Request for Quotation | |
| RIKEN | Institute of Physical and Chemical Research (Japan) | |
| RMS | Remote Manipulator System | |



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|-------|--|--|
| ROM | Rough Order of Magnitude | |
| ROOT | An Object-Oriented Data Analysis Framework developed at CERN | |
| RTF | Rich Text interchange Format | |
| RVC | Requirements, Verification and Compliance | |
| SAC | Scientific Analysis Component | |
| S/C | Spacecraft | |
| SDC | Science Data Center | |
| SEU | Structure and Evolution of the Universe (NASA Program) | |
| S/N | Signal-to-Noise | |
| SNR | Signal-to-Noise Ratio | |
| SOC | Science Operations Center | |
| SODC | Science Operations and Data Center | |
| SoW | Statement of Work | |
| SPC | Science Programme Committee (ESA) | |
| SRD | System Requirement Document | |
| SS | Study Scientist | |
| S/S | Sub System | |
| SSAC | Space Science Advisory Committee (ESA) | |
| SSC | Science Steering Committee | |
| STS | Shuttle Transport System | |
| SW | Software | |
| SWT | Science Working Team | |
| TBC | To Be Confirmed | |
| TBD | To Be Defined | |
| TBS | To Be Specified | |
| TBV | To Be Verified | |
| TBW | To Be Written | |
| TCP | Transmission Control Protocol | |
| TCS | Thermal Control System | |
| TCU | Thermal Control Unit | |
| TDRSS | Tracking & Data Relay Satellite System | |
| TEB | Tender Evaluation Board | |
| TLC | Telecommand | |
| TLM | Telemetry | |



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|--------|--|--|
| TPM | Technical Performance Measurement | |
| TPX | Polymethyl-pentene | |
| TRO | Trigger and Read-Out | |
| T-S | Thermal Structure | |
| TT&C | Telemetry, Tracking, and Commanding | |
| UAH | University of Alabama in Huntsville (USA) | |
| UCB | University of California in Berkeley (USA) | |
| UCLA | University of California in Los Angeles (USA) | |
| UECR | Ultra Energy Cosmic Ray | |
| UHEN | Ultra High Energy Neutrino | |
| ULTRA | UV Light Transmission and Reflection in Atmosphere | |
| UNISIM | | |
| Univ. | University | |
| UNM | University of New Mexico (USA) | |
| URD | User Requirement Document | |
| URL | Uniform Resource Locator | |
| UT | Universal Time | |
| UT | University of Texas (USA) | |
| UT | University of Texas in Austin (USA) | |
| UV | Ultra Violet | |
| VC | Virtual Channel | |
| VG | ViewGraph | |
| VHE | Very High Energy | |
| VLSI | Very Large Scale Integration | |
| WBS | Work Breakdown Structure | |
| WG | Working Group | |
| WP | Work Package | |
| WWW | World Wide Web | |
| XEUS | The X-ray Evolving Universe Spectroscopy Mission | |
| ZEONEX | Amorphous Cycle-Olefin | |