

Yashar Akrami

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EDUCATION

- PhD in Theoretical Physics (Cosmology and Astroparticle Physics)** **June 23, 2011**
 The Oskar Klein Centre for Cosmoparticle Physics, Department of Physics, Stockholm University, Sweden.
 Thesis title: *Supersymmetry vis-à-vis observation: dark matter constraints, global fits and statistical issues.*
- PhL (Fil. Lic.) in Theoretical Physics (Cosmology and Astroparticle Physics)** **February 26, 2010**
 The Oskar Klein Centre for Cosmoparticle Physics, Department of Physics, Stockholm University, Sweden.
 Thesis title: *Weak-scale supersymmetry: parameter space, complexity and global fits.*
- Masters in Physics (Cosmology)** **January 18, 2006**
 Department of Physics, Sharif University of Technology, Tehran, Iran.
 Thesis title: *Primordial perturbations as an observational probe of inflation*; completed at the Inter-University Centre for Astronomy and Astrophysics (IUCAA), Pune, India.
- Bachelors in Electrical Engineering (Control and Telecommunication)** **September 21, 2003**
 Department of Electrical Engineering, Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran.
- High school** **September 21, 1998**
 National Organization for Development of Exceptional Talents (NODET), Iran.

PROFESSIONAL EXPERIENCE

- Assistant Research Professor of Theoretical Physics (Ramón y Cajal Fellow)** **September 1, 2022 - present**
 Institute for Theoretical Physics (IFT) UAM-CSIC, Spain.
- Adjunct Assistant Professor of Physics** **October 1, 2022 - present**
 Department of Physics, Case Western Reserve University, USA.
- Richard Morrison Postdoctoral Fellow in Cosmology** **October 1, 2021 - August 31, 2022**
 Department of Physics, Case Western Reserve University, USA.
- Junior Research Chair in Theoretical Cosmology** **October 1, 2018 - September 30, 2021**
 International Center for Fundamental Physics (ICFP), École Normale Supérieure (ENS), Paris, France.
 Awarded as the *2018 laureate* of the prestigious ENS-ICFP Junior Research Chair program.
- Senior Postdoctoral Research Fellow in Cosmology** **August 1, 2016 - July 31, 2018**
 Lorentz Institute for Theoretical Physics, Leiden University, The Netherlands.
- Postdoctoral Research Fellow in Cosmology** **November 5, 2014 - July 31, 2016**
 Institute for Theoretical Physics (ITP), Heidelberg University, Germany.
 DFG-funded project TRR33 “The Dark Universe”.
- Postdoctoral Research Fellow in Cosmology** **August 1, 2011 - November 4, 2014**
 Institute of Theoretical Astrophysics, University of Oslo, Norway.
 ERC-funded project “The Anisotropic Universe: A Reality or Fluke?”.

SCIENTIFIC AND PROFESSIONAL DUTIES

– *Large-scale collaborations:*

- Founder and member of **COMPACT** (Collaboration for Observations, Models and Predictions of Anomalies and Cosmic Topology); 10.2022 - present
- Member of the **LiteBIRD** Collaboration; 07.2019 - present
- Member of the ESA **Euclid** Consortium (active mainly in Theory Working Group); 01.2012 - present
- **Leader** of **Euclid** Work Package on *initial conditions (early Universe)*; 11.2018 - present
- **Coordinator** of **Euclid** Theory Working Group’s Key Project “Forecasts for beyond-standard models in cosmology and fundamental physics”; 03.2021 - present
- Member of the **Square Kilometer Array (SKA)** Collaboration (Cosmology SWG); 01.2015 - present
- LFI Core Team Member of the ESA **Planck** Collaboration; 06.2013 - present
- Member of the proposing team for **CMB-HD**; 01.2019 - present
- Member of the **Euclid** Consortium Diversity Committee (ECDC); 06.2018 - present

- Member of the **Aquila** Consortium for Bayesian Large-Scale Structure Inference; 10.2018 - present
- Member of the **European COST Action** “Cosmology and Astrophysics Network for Theoretical Advances and Training Actions (**CANTATA**)”; 08.2016 - present
- Affiliated member of the NASA **Fermi Large Area Telescope (LAT)**; 2008 - 2011
- *Member of organizing committees for:*
 - A Cosmic Window to Fundamental Physics: Primordial Non-Gaussianity and Beyond; Instituto de Física Teórica (IFT, CSIC-UAM), Madrid, Spain, September 2022
 - Cosmology at the Crossroads; online conference, February 2021
 - SKA Cosmology SWG Meeting; École Normale Supérieure, Paris, France, January 2020
 - GOLD: The Golden Cosmological Surveys Decade; Paris-Saclay, France, April-June 2020
 - Paris Primordial Cosmology Meetings (3 per year); Paris, France, started in 2019
 - 9th and 10th TRR33 Winter School on Cosmology; Passo del Tonale, Italy, December 2015 and 2016
 - Tehran Conference on Modified Gravity; Tehran, Iran, January 2016
 - Heidelberg-Geneva Workshop on Cosmology: Gravity at the Largest Scales; Heidelberg, Germany, October 2015
 - ITP Local Interactions 2015: Gravity Beyond Einstein; Heidelberg, Germany, May 2015
 - International Conference on Beyond Λ CDM; Oslo, Norway, January 2015
 - Dark Matter Meeting; Oslo, Norway, October 2011
 - OKC Workshop on Supersymmetry (PROSPECTS); Stockholm, Sweden, September 2010
- *Associate member of the Committee on Space Research (COSPAR); 2014 - present*
- *Organizer of Leiden Cosmology Seminars, 2016 - 2018, Leiden, The Netherlands*
- *Organizer of ITP Cosmology Seminars, 2015 - 2016, Heidelberg, Germany*
- *Editorial Board of “Universe” Cosmology Section and guest editor for special issue “Late Time Universe: Cosmic Acceleration”*
- *Referee for international journals:*
 - Nature Astronomy
 - Physical Review D
 - Physical Review Letters
 - Physics Letters B
 - Journal of Cosmology and Astroparticle Physics (JCAP)
 - Journal of High Energy Physics (JHEP)
 - Monthly Notices of the Royal Astronomical Society
 - Classical and Quantum Gravity (CQG)
 - Physics of the Dark Universe
 - Universe
 - General Relativity and Gravitation (GERG)
 - European Physical Journal C
 - Reports on Progress in Physics
 - European Journal of Physics
 - Journal of Physics G
 - Astrophysics and Space Science
- *Other duties and memberships:*
 - Management Committee Member (representative of the Netherlands) for the European COST Action CANTATA; 2016 - 2018
 - PhD dissertation committees and PhD/postdoc selection panels (Leiden & Paris)
 - Evaluation of grant applications for COST (European Cooperation in Science and Technology), Academy of Finland, Estonian Research Council, and Chilean Research Council
 - European Physical Society; 2010 - present
 - Swedish Physical Society (2010 - 2014) and Swedish Association of University Teachers (2010-2012)

ACADEMIC AND RESEARCH INTERESTS

- New physics beyond the standard model of cosmology
- Large-scale cosmic anomalies and observational tensions: model building and data analysis
- Searching for the topology of the Universe
- Early-Universe cosmology: cosmic microwave background, initial conditions, inflation and alternatives, primordial perturbations, large-scale structure, primordial gravitational waves, primordial black holes, string cosmology
- Cosmic acceleration: dark energy, cosmological constant problem, infrared theories of gravity, large-scale structure, fundamental physics (supergravity, string theory, quantum gravity) based models of dark energy
- Cosmological tests of gravity: large-scale structure (ultra-large scales, nonlinear regime), gravitational waves
- Laboratory tests of gravity and dark energy
- Implications of cosmology for fundamental theories (supergravity, string theory, quantum gravity)
- Cosmological surveys (*Planck*, *Euclid*, *SKAO*, *LiteBIRD*, *CMB-HD*)
- Big data, statistical inference and high-performance computing in cosmology and fundamental physics
- Artificial intelligence in cosmology and fundamental physics
- Theory and phenomenology of dark matter

SELECTED RESEARCH VISITS

- Imperial College London, UK [October - November 2022]
- University of Michigan, USA [August 2022]
- Princeton University, USA [August 2022]
- Imperial College London, UK [May - July 2022]
- Imperial College London, UK [November 2021 - April 2022]
- Institute of Physics of Cantabria (IFCA), Spain [September 2021]
- Jodrell Bank Centre for Astrophysics, Department of Physics and Astronomy, University of Manchester, UK [February 2020]
- Lorentz Institute for Theoretical Physics, Leiden University, Netherlands [September 2019]
- Imperial College London, UK [May 2019]
- Queen Mary University of London, UK [May 2019]
- Institute of Cosmology and Gravitation - University of Portsmouth, UK [May 2019]
- King's College London, UK [May 2019]
- University of Nottingham, UK [April 2018]
- Institut de Physique Théorique, CEA Saclay, Paris, France [September 2017]
- Institute for Research in Fundamental Sciences (IPM), Iran [November-December 2016 and August 2017]
- The Oskar Klein Centre for Cosmoparticle Physics, Stockholm University, Sweden [September 2016]
- University of Geneva, Switzerland [November 2015]
- Bielefeld University, Germany [July 2015]
- Nordic Institute for Theoretical Physics (NORDITA), Sweden [March and August 2015]
- Lund University, Sweden [June 2015]
- DAMTP, University of Cambridge, UK [June 2014]
- ITP, Heidelberg University, Germany [May 2014]
- DAMTP, University of Cambridge, UK [April 2014]
- California Institute of Technology (Caltech) and NASA Jet Propulsion Laboratory (JPL), USA [November and December 2013]
- Asia Pacific Center for Theoretical Physics (APCTP), South Korea [June 2013]
- California Institute of Technology (Caltech) and NASA Jet Propulsion Laboratory (JPL), USA [November and December 2012]
- University of Oxford, UK [April - June 2012]
- Inter-University Centre for Astronomy and Astrophysics (IUCAA), India [summer and autumn 2005]
- Inter-University Centre for Astronomy and Astrophysics (IUCAA), India [summer and autumn 2004]

SELECTED SCHOOLS/CONFERENCES/MEETINGS (mainly as speaker/organizer except for early schools)

- **2022:**
 - Euclid Theory Working Group Meeting 2022, Bologna, Italy
 - A Cosmic Window to Fundamental Physics: Primordial Non-Gaussianity and Beyond, Instituto de Física Teórica (IFT, CSIC-UAM), Madrid, Spain
 - Workshop on Tensions in Cosmology, Corfu, Greece
- **2021:**
 - Euclid Theory Working Group Meeting 2021, Online
 - From Quarks to Cosmos with AI, Online
 - Roman Information Sessions, Online
 - Cosmology from Home 2021, Online
 - PASCOS 2021, Online
 - Growth of Structure Summer Seminar Series, Online
 - Euclid Consortium Meeting 2021, Online
 - Cosmology at the Crossroads, Online
- **2020:**
 - BeyondPlanck Release Conference, Online
 - ESO Conference: “Assessing Uncertainties in Hubble’s Constant Across the Universe”, Online
 - LiteBIRD France, Online
 - Euclid Theory Working Group Meeting 2020, Online
 - Euclid Consortium Meeting 2020, Online
- **2019:**
 - B-mode from Space, Max-Planck-Institut für Astrophysik, Garching, Germany
 - CoSyne: Cosmological synergies in the upcoming decade, Institut d’Astrophysique de Paris (IAP), Paris, France
 - French Dark Energy Theory Meeting, Institut Henri Poincaré, Paris, France

- Aquila Consortium meeting, Imperial College London, **UK**
- ENS team-building meeting, Roscoff, **France**
- The Paris-Saclay AstroParticle Symposium 2019, Institut Pascal, **France**
- Paris-Amsterdam-London-Stockholm 9th meeting (PALS) 2019, Sorbonne University, Paris, **France**
- Understanding cosmological observations, Benasque, **Spain**
- Particle physics, String theory and Cosmology (PASCOS) 2019, University of Manchester, **UK**
- Gordon Research Conference (GRC) on String Theory and Cosmology: New Physics in the Era of Precision Cosmology, Barcelona, **Spain**
- Gordon Research Seminar (GRS) on String Theory and Cosmology: Accelerating Expansion and Cosmological Evolution in String Theory, Barcelona, **Spain**
- Inflation and Geometry, Institut d’Astrophysique de Paris (IAP), Paris, **France**
- Euclid Consortium Meeting 2019, Helsinki, **Finland**
- Planck NPIPE meeting, Institut d’Astrophysique de Paris (IAP), Paris, **France**
- Euclid Theory Working Group Meeting 2019, University of Oxford, **UK**
- Cosmology@Malta, Fort St Elmo, Valletta, **Malta**
- **2018:**
- SKA-France meeting, École Normale Supérieure (ENS), Paris, **France**
- Aquila Consortium meeting, Institut d’Astrophysique de Paris (IAP), Paris, **France**
- Machine Learning @IHP, Institut Henri Poincaré, Paris, **France**
- Analytics, Inference, and Computation in Cosmology, Institut Henri Poincaré, Paris, **France**
- The vacuum of the Universe 2018: from cosmology to particle physics – CMB Anomalies and Tensions, Institute of Cosmos Sciences (ICCUB), Barcelona, **Spain**
- Euclid Theory Working Group Meeting 2018, Institut Henri Poincaré, Paris, **France**
- Euclid Theory Work Package I (Cosmic Acceleration and Tests of Gravity) Meeting, University of Lisbon, **Portugal**
- Physics@Veldhoven, Veldhoven, **Netherlands**
- **2017:**
- Square Kilometre Array (SKA) Cosmology Science Working Group meeting, Queen Mary University of London, **UK**
- 2nd CANTATA Meeting, Frankfurt Institute for Advanced Studies, **Germany**
- Dark Energy in the Laboratory, Leiden, **Netherlands**
- Dark Energy and Modified-Gravity cosmologies: DARKMOD, CEA Saclay, Paris, **France**
- Tehran Meeting on Cosmology, IPM, **Iran**
- Advances in Theoretical Cosmology in Light of Data, NORDITA, **Sweden**
- Theoretical Approaches to Cosmic Acceleration: Connecting String, Supergravity and Quantum Field Theory Aspects of (Near-) De Sitter Space, Leiden, **Netherlands**
- Euclid Theory Working Group Meeting 2017, Heidelberg, **Germany**
- Physics@Veldhoven, Veldhoven, **Netherlands**
- **2016:**
- 10th TRR33 Winter School on Cosmology (as organizer), Passo del Tonale, **Italy**
- 1st CANTATA Meeting, Lisbon, **Portugal**
- 8th Bethe Center Workshop: Particle Physics meets Cosmology, Bad Honnef, **Germany**
- SW10: Hot topics in Modern Cosmology, Cargese, Corsica, **France**
- Theoretical Cosmology in the Era of Large Surveys, Galileo Galilei Institute, Florence, **Italy**
- **2015:**
- 9th TRR33 Winter School on Cosmology (as organizer), Passo del Tonale, **Italy**
- Planck I&S and CP Meeting, Torun, **Poland**
- Workshop on Particles and Cosmology, Corfu, **Greece**
- Euclid Consortium Meeting 2015, EPFL, **Switzerland**
- Kosmologietag 10, Bielefeld University, **Germany**
- Extended Theories of Gravity, NORDITA, **Sweden**
- Beyond Λ CDM, Oslo, **Norway**
- **2014:**
- PLANCK 2014, Ferrara, **Italy**
- Dark Energy Interactions, NORDITA, **Sweden**
- Planck Joint LFI/HFI meetings, Bologna, **Italy** and Paris, **France**
- NBIA-APCTP Workshop on Cosmology, Copenhagen, **Denmark**
- COSPAR Scientific Assembly, Moscow, **Russia**
- Planck I&S Meeting, Torun, **Poland**
- Euclid Consortium Meeting, Marseille, **France**

- *Structure of Gravity and Spacetime*, University of Oxford, **UK**
- **2013:**
 - *COSMO 2013*, University of Cambridge, **UK**
 - *Prospects of Studying Dark Energy*, Seoul, **South Korea**
 - *IEU Cosmology Conference*, Seoul, **South Korea**
 - *Euclid Consortium Meeting*, Leiden, **Netherlands**
 - *The Universe as seen by Planck*, ESA/ESTEC, **Netherlands**
 - *Cosmological Tests of Gravity*, University of Oxford, **UK**
- **2012:**
 - *Modern Cosmology: Early Universe, CMB and LSS*, Benasque, **Spain**
 - *Marcel Grossmann Meeting*, Stockholm, **Sweden**
 - *Recontres Itzykson – Heart of Darkness: Dark Energy and Modified Gravity*, IPhT CEA-Saclay, **France**
 - *Nordic-Baltic Summer School (as lecturer)*, Onsala, **Sweden**
 - *Euclid Consortium Meeting*, Copenhagen, **Denmark**
- **2011:**
 - *The Return of de Sitter*, NORDITA, **Sweden**
 - *Global BSM Fits and LHC Data*, CERN, **Switzerland/France**
- **2010:**
 - *Darkness Visible*, University of Cambridge, **UK**
 - *Quarks, Strings and the Cosmos*, Stockholm, **Sweden**
 - *Experimental Search for Quantum Gravity*, NORDITA, **Sweden**
 - *TOOLS 2010*, Winchester, **UK**
 - *Cosmic Ray Backgrounds in Dark Matter Searches*, Stockholm, **Sweden**
- **2009:**
 - *TeV Particle Astrophysics V*, SLAC/Stanford, **USA**
 - *Astroparticle Physics: A Pathfinder to New Physics*, NORDITA, **Sweden**
- **2008:**
 - *Biennial Leopoldina Conference on Dark Energy*, Munich, **Germany**
 - *Identification of Dark Matter*, Stockholm, **Sweden**
 - *Summer School on de Sitter Cosmology*, NORDITA, **Sweden**
 - *TeV Scale Physics and Dark Matter*, NORDITA, **Sweden**
 - *Symmetries and Phases in Universe*, Munich, **Germany**
 - *LHC and Beyond*, NORDITA, **Sweden**
- **2007:**
 - *Dark Matter, from the Cosmos to the Laboratory*, SLAC/Stanford, **USA**
 - *Cosmology, Strings, and Phenomenology*, Stockholm, **Sweden**
 - *Winter School in Particle Physics and Cosmology*, Gausdal, **Norway**
- **2006:**
 - *School on Inflation and String Cosmology*, Aarhus, **Denmark**

TEACHING EXPERIENCE/DUTIES

- **École Normale Supérieure (ENS) [2018-2021]:**
 - **Cosmology** [autumn/winter 2020/2021]
 - **General Relativity** [autumn 2020]
 - **Introduction to Astrophysics** [autumn 2020]
 - **Cosmology** [autumn/winter 2019/2020]
 - **General Relativity** [autumn/winter 2018/2019]
- **Leiden University [2016-2018]:**
 - **Topics in Theoretical Physics (Cosmology)** [spring 2018]
- **Heidelberg University [2014-2016]:**
 - **General Relativity** [spring/summer 2016]
 - **Quantum Field Theory** [winter 2015]
 - **Advanced Cosmology** [spring/summer 2015]
- **Stockholm University [2006-2011]:**
 - **General Relativity** [spring 2010]
 - **Advanced Relativistic Quantum Field Theory** [autumn 2009]

- Relativistic Quantum Mechanics [spring 2009]
- Quantum Mechanics III [autumns 2008, 2009, and 2010]
- Sharif University of Technology [2003-2006]:
 - Advanced Cosmology
 - Advanced Electrodynamics
 - Advanced Classical Mechanics
 - Physics Lab. I and II
- Tehran Polytechnic [1998-2003]: Electromagnetism, Analytical Mechanics, Electrical Measurements and Circuits Lab.
- LION Summer School: Modern physics at all scales (invited lecturer) [July 2017], Leiden University.
- LION Summer School: Modern physics at all scales (invited lecturer) [July 2018], Leiden University.
- Cosmology Beyond the Standard Model (14-hour intensive course; invited lecturer) [December 2016], Tehran, Iran.
- Nordic-Baltic Summer School (invited lecturer) [summer 2012], Onsala, Sweden.

SUPERVISION EXPERIENCE

- **PhD advisor:** Nicolas Chartier; École Normale Supérieure (ENS), 2019-2022. Title: “Understanding cosmic origins from galaxy surveys with Likelihood-Free Inference”. Co-supervisors: Benjamin Wandelt (IAP) and Nick Kaiser (ENS). Funding provided by ENS as part of starting grant for my JRC position.
- **Supervisor (MSc, M2 project):** Senwen Deng; École Normale Supérieure, 2021.
- **Supervisor (MSc, M1 project):** Sharon David; Sorbonne Université, 2021.
- **Supervisor (MSc):** Romane Cologni; École Normale Supérieure, 2020-2021.
- **Supervisor (MSc):** Anna Negro; Erasmus student at École Normale Supérieure from University of Padova, Italy, 2020. Co-supervisor: Sabino Matarrese (Padova).
- **Supervisor (MSc):** William Doumerg; École Normale Supérieure, 2019/2020.
- **Supervisor (MSc, M2 project):** Senwen Deng; École Normale Supérieure, 2019.
- **Co-supervisor (PhD):** Valeri Vardanyan; Leiden University, 2016-2019.
- **Co-supervisor (MSc):** Michalis Dagtzis; Leiden University, 2018.
- **Supervisor (MSc):** Jamie Watson; Leiden University, 2017.
- **Co-supervisor (summer project):** Roohi Dalal (from JPL/Caltech, US); Leiden University, 2017.
- **Co-supervisor (MSc):** Vida Saeidzadeh, Andia Khosravi, Fereshteh Majidi, Sara Hoseini and Romina Fassihi; Alzahra University, 2016-2018.
- **De facto supervisor (PhD):** Henrik Nersisyan; Heidelberg University (adviser: Luca Amendola), 2014-2016.
- **Co-supervisor (PhD):** Frank Könnig; Heidelberg University (adviser: Luca Amendola), 2014-2016.
- **De facto supervisor (MSc):** Marvin Lüben; Heidelberg University, 2015.
- **De facto supervisor (MSc):** Supranta Sarma Boruah; Indian Institute of Technology, Kanpur, 2015.
- **Supervision elements for Adam R. Solomon’s PhD;** University of Cambridge (adviser: John D. Barrow), 2013-2015.
- **De facto supervisor (PhD):** Marit Sandstad; University of Oslo (adviser: David Mota), 2011-2014.

PRIZES, AWARDS AND HONOURS

- NASA Astrophysics Theory Program funding - Project “Searching for the Topology of the Universe”, 2022-2025
- 2018 laureate of the prestigious ENS-ICFP Junior Research Chair (JRC) program
- 2019 Giuseppe & Vanna Cocconi and 2018 Gruber Cosmology Prizes (awarded to Planck team)
- German Research Foundation (DFG) funding - Project TRR33 “The Dark Universe”, 2014
- Helge Axelsson Johnson Foundation Award, 2010
- Recipient of the competitive HEAC PhD funding, 2006
- Winner of the International Physics and Mathematics Olympiads, country level, 1997/1998

COMPUTER SKILLS

- *Programming languages:* Fortran, C, Python, IDL
- *Computational software:* Mathematica, Maple, MATLAB
- *High performance and parallel computing:* MPI, OpenMP
- *Cosmological codes and packages:* CAMB, CosmoMC, CLASS, Monte Python, Cobaya, HEALPix, Commander, EFTCAMB, EFTCosmoMC, CosmicFish, hi_class
- *Extensive experience in working with supercomputers, computer clusters, and large data sets*

- General Relativity Theory with Cosmology • Cosmology and Astroparticle Physics • Relativistic Quantum Mechanics
- Quantum Field Theory • Theory of Supersymmetry • Applications of Supersymmetry • String Theory • Grand Unified Theories • Statistical Methods in Physics • Statistical Physics • Radiation Processes in Astrophysics • High Energy Astrophysics • University Pedagogy.

PERSONAL INFORMATION

- *Language:* Persian (mother tongue), English (fluent), Norwegian (fair), Swedish (sufficient) • *Hobbies:* dancing, playing violin, music (classical, Persian traditional), fencing, traveling, hiking, reading (literature, philosophy, politics), movies.

REFERENCES

- Prof. Andrei Linde, Stanford University, USA, +1 650 723-2687 and +1 650 494-6106, alinde@stanford.edu*
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Prof. Frode Kristian Hansen, ITA Oslo, Norway, +47 22 85 65 16, f.k.hansen@astro.uio.no
Prof. Anthony Banday, IRAP Toulouse, France, +33 (0)5 61 55 77 78, anthony.banday@irap.omp.eu
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