

2025
Apirilak
9-10 abril

Zientzia eta Teknologia Fakultateko
IX. Ikerkuntza Jardunaldiak
IX Jornadas de Investigación
de la Facultad de Ciencia y Tecnología

AHOZKO KOMUNIKAZIOAK
COMUNICACIONES ORALES

BIOZIENTZIAK
BIOCIENCIAS

Gradu Aretoa
Salón de Grados

- 10:30 **Enara Alday**. Photosynthesis in Extreme Environments: Research in Antarctica
- 10:35 **Itziar Arranz**. From mussels to oysters: a necessary transition in biomonitoring sentinel species on the Basque coast.
- 10:40 **Jokin Belmonte**. FOREST ON THE EDGE! Impacts of habitat fragmentation and global change on the vegetation diversity of Basque Navarran mesic oak and floodplain forest.
- 10:45 **Evgeni Bunin**. Impact of sewage treatment plant effluents on estuarine sediments: Microbial indicators of the environmental health.
- 10:50 **Nahia Cazalis**. The effect of Candida albicans on the metastatic capacity and the activation of metabolic pathways in melanoma cells.
- 10:55 **Edgar Dusacre**. Fate and effects of microplastics, nanoplastics and additives from the degradation of fishing nets in the Bay of Biscay.
- 11:00 **Alejandro García**. Relevance of E2F factors in the interface between cell cycle and centrosome cycle.
- 11:05 **Unai Illarregi**. Transcriptomics in pediatric hematologic cancers: biomarker discovery for prognostic prediction at diagnosis.
- 11:10 **Asier Larrea**. Use of reconstituted HDL for the theragnostic of cardiovascular disease.
- 11:15 **Jon Charles Levy**. The principle of detecting an undetectable organism.
- 11:20 **Izei Pascual**. Epitranscriptomics in Autoimmune Diseases: Unraveling RNA Modifications in Immune Dysregulation.
- 11:25 **Maialen Zabala**. CdiA-CT efektore baten karakterizazio biofisiko funtzional eta estrukturala.
- Eztabaida / Discusión

FISIKA ETA INGENIARITZA ELEKTRONIKOA
FÍSICA E INGENIERÍA ELECTRÓNICA

2.2 Gela
Aula 2.2

- 10:30 **Mikel Artola**. Exploring the fate of the universe through dark energy with transient dynamics.
- 10:35 **Alessia Bongallino**. Particle Physics at UPV/EHU: exploring the fundamental structure of matter.
- 10:40 **Aitor Erkoreka**. Exploring Ferroelectric Liquid Crystal.
- 10:45 **Julen Estonba eta Carmelo López**. Numerical cosmology: simulations of the early Universe.
- 10:50 **Malen Elxeberria**. Computational methods in condensed matter systems: relativistic effects due to periodically driven perturbations.
- 10:55 **Iñaki Iriarte**. Quantum Sensors for Nuclear Magnetic Resonance.
- 11:00 **Miriam Lazo eta Camila Cristiano**. Quantum world: From textbook to tech.
- 11:05 **Francesco di Marcantonio**. Quantum Maby-Body Hamiltonians embedding in the MPO formalism.
- 11:10 **Andoni Perez**. Diseño y fabricación de una fuente compacta de neutrones.
- 11:15 **Jon Vivas**. Magnetrons: From Popcorn To Protons.
- Eztabaida / Discusión

GEOLOGIA
GEOLOGÍA

0.1 Gela
Gela 0.1

- 10:30 **Jone Arbulu**. Environmental anomalies in carbonate platforms during the Cretaceous hyperextension (Basque-Cantabrian Basin).
- 10:40 **Jon Gardoki**. Environmental assessment and historical contamination of estuaries and rías from the northern Atlantic Iberian margin - A geological perspective.
- 10:50 **Zuriñe Larena**. Carbonate lake and wetland systems in the Cenozoic of the Miranda-Trebiño basin (N Iberia).
- 11:00 **Unai Olabarrieta**. Cyclostratigraphic, paleoclimatic and paleoenvironmental analysis of the Bartonian/Priabonian transition hemipelagic deposits on the North-Iberian continental margin (Pamplona Marl Formation).
- 11:10 **Asier Valenzuela**. Preliminary insights from the middle-upper Oligocene alluvial deposits of the Medina de Pomar Basin (Western Pyrenees, N Spain).
- Eztabaida / Discusión

MATEMATIKAK
MATEMÁTICAS

0.5 Gela
Aula 0.5

- 10:30 **Christian Carballo**. Efficiency of Symmetric Nash Equilibria and of Reinforcement -Learning-based Algorithms for Epidemic Models.
- 10:40 **Alejandro Claros**. Weighted Poincaré-Sobolev inequalities via fractional integration.
- 10:50 **Iker Gardezabal**. Self-improving properties of generalized Poincaré inequalities.
- 11:00 **Leire Garmendia**. Global AUC(t) estimation proposal for multistate models.
- 11:10 **Begoña Ispizua**. Study on estimating the Remaining Useful Life (RUL) of batteries.
- 11:20 **Nathan Metraud**. Flow equation with application in quantum field theory.
- 11:30 **Matias Benjamin**. Spectral stability of Dirac operators.
- 11:40 **Gonzalo Romera**. Neural: "Networks & PDEs: a Garlerkin method approach.
- 11:50 **Gontzal Sagastabeitia**. On the Performance of Dynamic Matching Models with Threshold-based Policies.
- Eztabaida / Discusión

KIMIKA
QUÍMICA

Adela Moyua Aretoa
Sala Adela Moyua

- 10:30 **Lidia Blasco**. Antibody-drug conjugates (ADCs), a promising therapeutic strategy for the treatment of advanced.
- 10:35 **Leire Coloma**. Analytical Chemistry in the Exploracion of Mars and the Moon.
- 10:40 **Raquel Lopez**. Eco-Innovation in Materials: Bio-Based Polyurethanes Reinforced with Nanotechnology Anticorrosion and Antifouling.
- 10:45 **Carles Moreu**. Suspect analysis in environmental samples.
- 10:50 **Mojtaba Ostovar**. Smart Soil Remediation: Blending Biopiles, Plants, and Nanotech.
- 10:55 **Yeray Yuri**. Nanotech-Enhanced Biopolymer Coatings: Revolutionizing Anticorrosion & Antifouling Performance for Offshore Environments.
- 11:00 **Borja Taboada**. Co(III)-Catalyzed Synthesis and Functionalization of (Hetero) arenes.
- 11:05 **Andrés Felipe Vélez**. Blue Revolution: From Marine Waste to Innovation in Packaging.
- Eztabaida / Discusión

INGENIARITZA KIMIKOA
INGENIERÍA QUÍMICA

1.A1 Gela
Sala 1.A1

- 10:30 **Nassima Berroug**. Metanación de CO₂ con hidrógeno verde para la producción de energía limpia y sostenibilidad ambiental.
- 10:35 **Alvaro Cano**. Conical spouted beds: hydrodynamics and applications towards industrial implementation.
- 10:40 **María Córdoba**. Intensified dry reforming of biogas: closing the organic waste recycling loop.
- 10:45 **Iratxe Crespo**. Sustainable valorization of refinery by-products, plastics, and bio-oil into valuable resources in the Waste-Refinery.
- 10:50 **Nelson Domínguez**. From Waste to Resource: Producing Sustainable Furfuryl Alcohol by aqueous phase catalysis.
- 10:55 **Iñigo Lacarra**. Captura directa de CO₂ del aire y conversión a CH₄: hacia un sistema energético neutro en carbono.
- 11:00 **Leire Olazar**. Hondakinen balorizaziorako prozesu termokimikoak.
- 11:05 **Arancha Saiz**. Cascade Reactors Strategy for Olefin Production from CO and CO₂.
- Eztabaida / Discusión



ZIENTZIA
ETA TEKNOLOGIA
FAKULTATEA
FACULTAD
DE CIENCIA
Y TECNOLOGÍA

50 URTE
AÑOS
1968 - 2018
Biba Zientzia!
Ciencia Viva