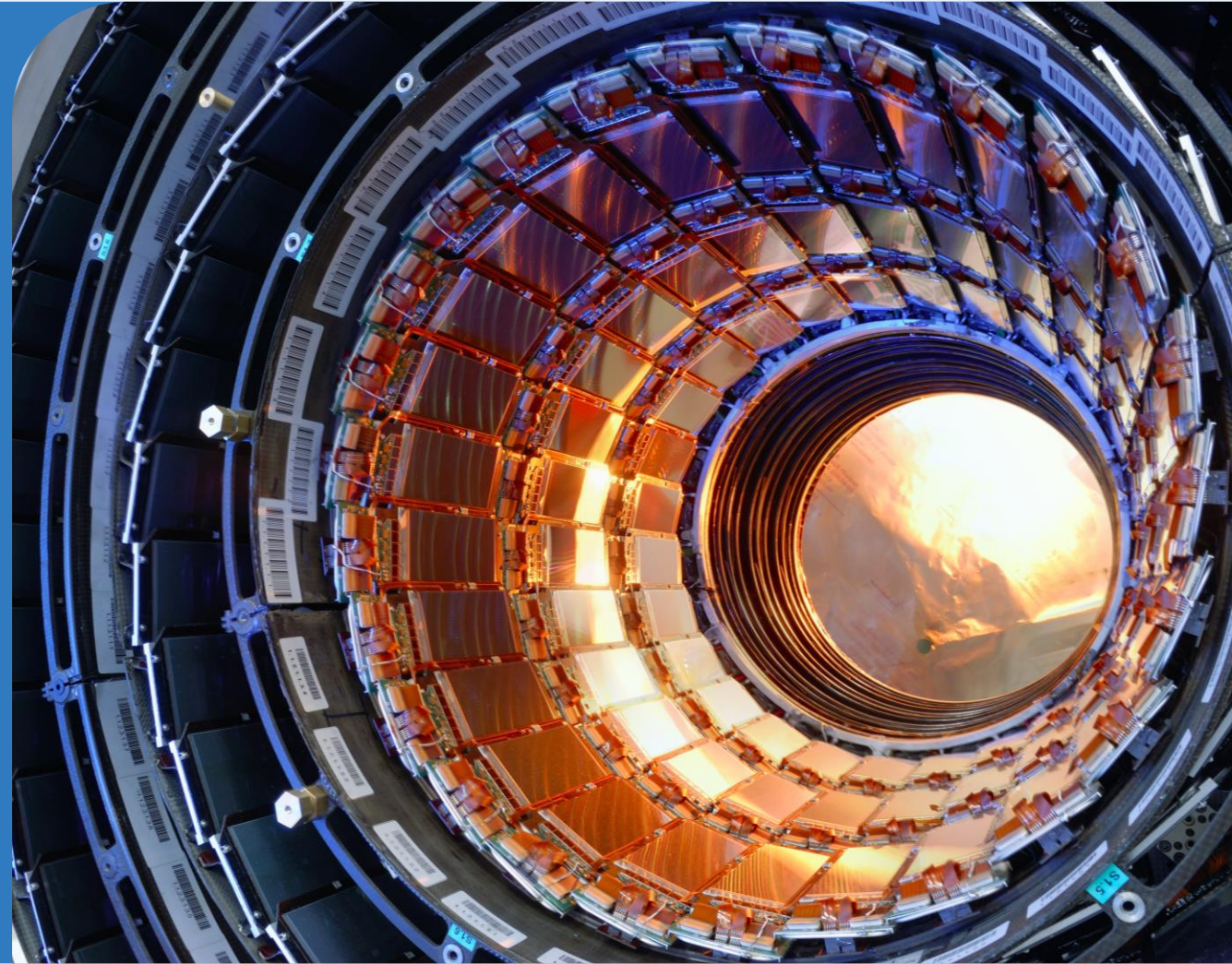


Marietta Blau Institute for Particle Physics

Jochen Schieck
Vienna, 14.IX.2026



Welcome to the M4JETS Conference 2026 in Vienna

Marietta Blau



- Austrian Physicist (1894-1970)
- Working at Institut für Radiumforschung (founded 1910)
- Key contribution to visualization of particle Tracks
- Emigration to Mexico in 1938
- Proposed several times for Nobel Prize

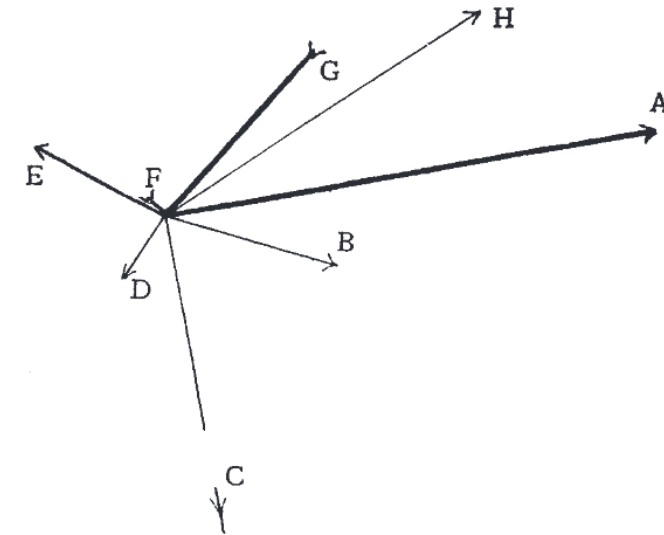
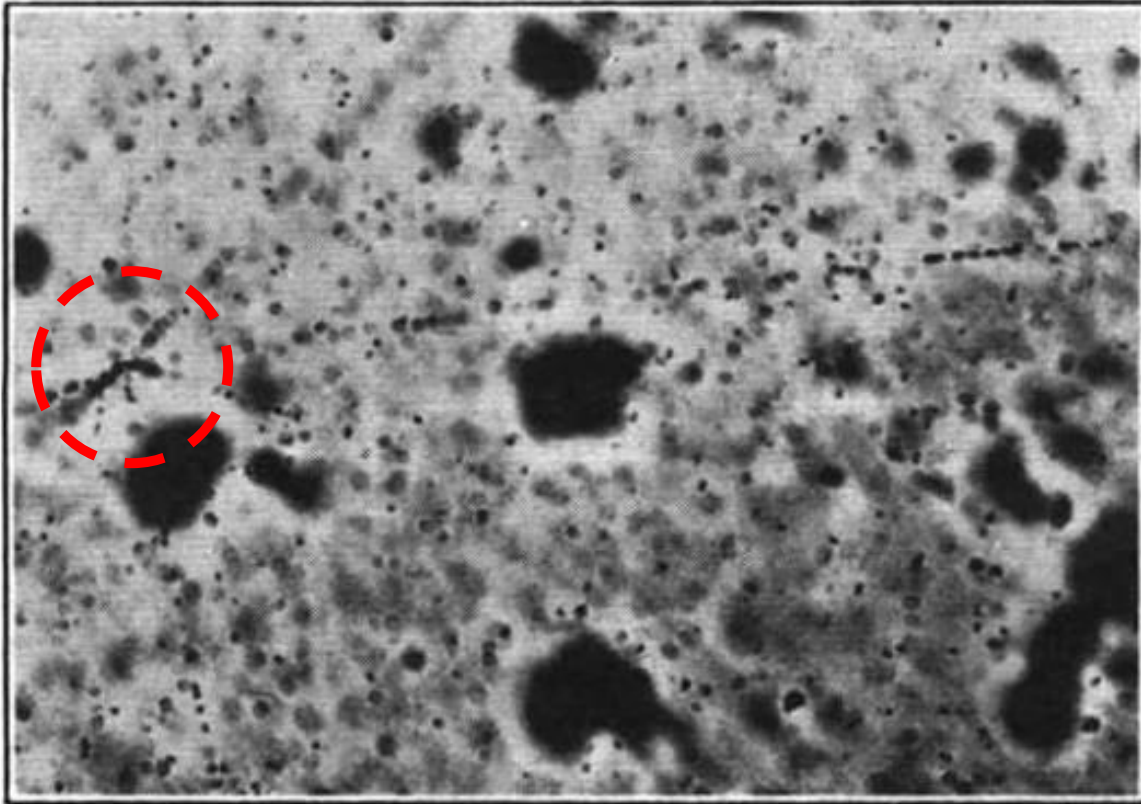


FIG. 2.

THICK LINES INDICATE A COMPARATIVELY LARGE NUMBER OF GRAINS PER UNIT OF LENGTH OF THE TRACK. AN INTERRUPTED LINE MEANS THAT THE TRACK IS TOO LONG TO BE REPRODUCED ON THE SAME SCALE. THE ARROWS INDICATE THE DIRECTION FROM THE SURFACE OF THE EMULSION TO THE GLASS.

Nature Volume 140, page 585 (1937)

- Visualization of Spallation process induced by cosmic radiation on photographic plate

Marietta Blau

- Pioneering visualization of particle tracks using Nuclear Emulsion
- Groundbreaking work for particle detection
 - Nobel Prize for Cecil Powell for the detection of Pions (and Myons) in cosmic rays
- Essential experimental technique to study fundamental particles



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- A black and white photograph of a large, multi-story classical building, identified as 100 West Wall Street. The building features a prominent corner with a series of windows and a central entrance on the ground floor. The facade is light-colored with horizontal lines. In the foreground, there is a construction site with scaffolding and a few people. The background shows trees and other buildings.

Marietta Blau Institute for Particle Physics (MBI)



- MBI was founded in 2025
- Merger of two former ÖAW institutes with closely related scientific disciplines
 - **Stefan Meyer Institute for subatomic Physics (SMI)**
 - **Institute for High Energy Physics (HEPHY)**
- About 120 people (head count), including 25-30 PhD



MARIETTA BLAU
INSTITUTE FOR
PARTICLE PHYSICS

Marietta Blau Institute for Particle Physics



- Austria's largest non-university research institute focusing on experimental and theoretical particle physics
- Largest Austrian Participant in experimental program at CERN
- significant contribution to the development, conception, construction and testing of experiments and subsequent data analysis
- Involvement in scientific program at KEK (Japan) and LNGS (CRESST and COSINUS)
- Cooperation with TU Wien and Universität Wien

Austrian Academy of Sciences



- Austria's central non-university research and science institution
- established in 1847
- ÖAW operates 25 research institutes with broad scientific orientation
- About 1800 employees
- 3 year budget of 529 M€ (2024-2026)

