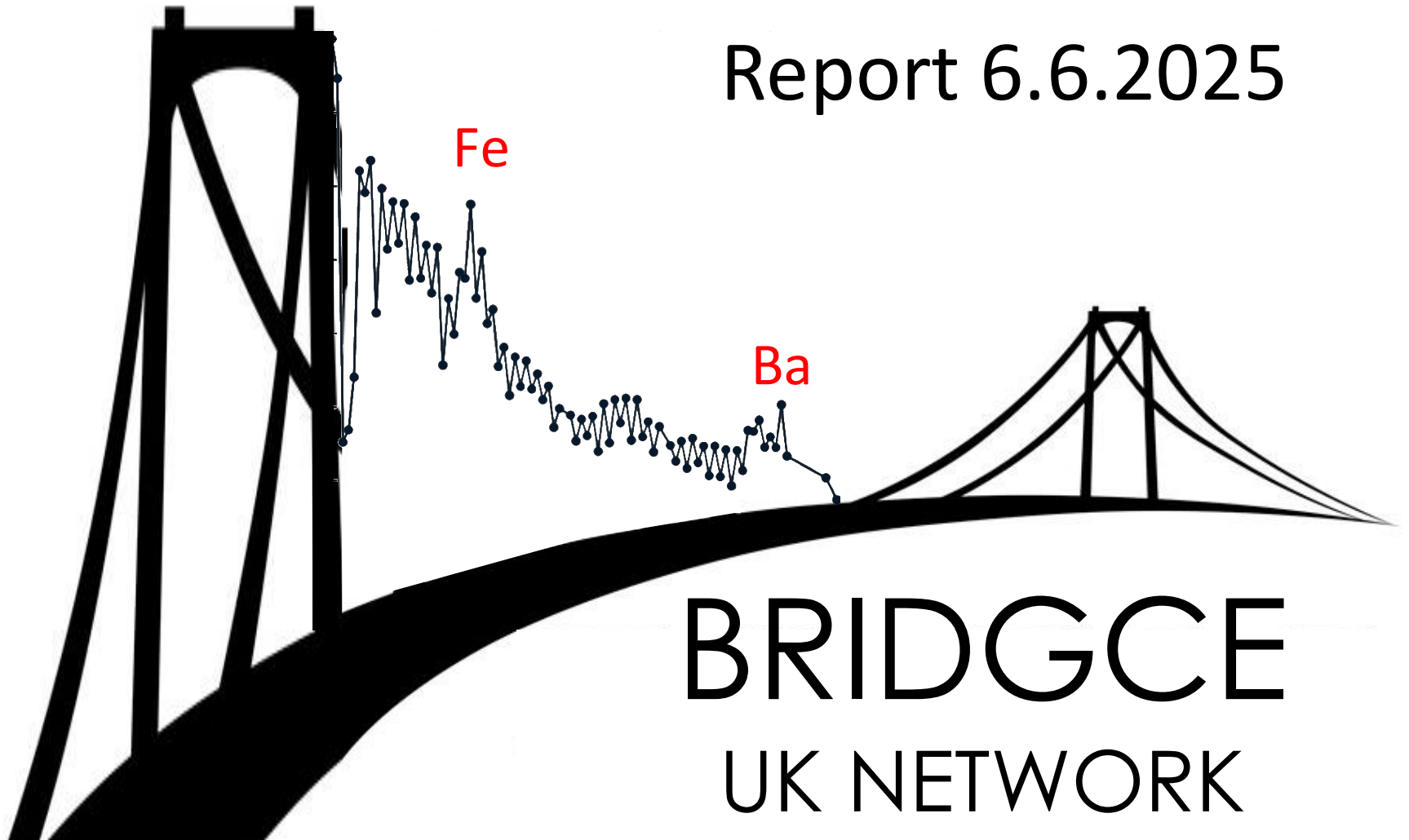


BRIDGCE: BRIDGE the Disciplines related to the Galactic Chemical Evolution

Report 6.6.2025



BRIDGCE

UK NETWORK

<http://bridgce.ac.uk>

UKRI/STFC-funded BRIDGCE Network

- Started in 2013, by **Raphael Hirschi** (Keele)
- Chair: **Chiaki Kobayashi** (Hertfordshire), since 2019
- Aim: **knowledge transfer between different disciplines**
- Research network on nuclear astrophysics, similar to EU ChETEC and US JINA
- All BRIDGCE members are entitled to join IReNA, by agreeing its rule on <http://www.jinaweb.org>
- A few members funded by STFC/UKRI; annual meetings/school are funded by:



Science and
Technology
Facilities Council



Royal
Astronomical
Society



IOP
Institute of Physics



Open membership

- Any researchers who work (or worked) in the UK can join by signing up the mailing list at <https://www.jiscmail.ac.uk/cgi-bin/webadmin?A0=BRIDGCE>
- **85 researchers from 22 universities** across the UK



UNIVERSITY OF
BIRMINGHAM



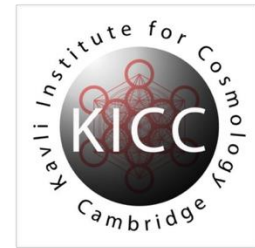
University of
BRISTOL



THE UNIVERSITY
of EDINBURGH



LIVERPOOL
JOHN MOORES
UNIVERSITY



Keele
UNIVERSITY



University of
Hertfordshire **UH**



Newcastle
University



UNIVERSITY OF
OXFORD



UNIVERSITY OF
PORTSMOUTH

UNIVERSITY OF
SURREY



UNIVERSITY
of York



WARWICK
THE UNIVERSITY OF WARWICK

Durham
University



Multi-discipline

Nuclear Astrophysics

Reaction Rates: GSI-
FAIR, CERN-nToF, Ganil

Stellar Physics

Stellar Mass Loss
Stellar Evolution
Supernovae
Nucleosynthesis
Rotation vs Binary

Atomic Physics

The Milky Way

Galactic
Archaeology (GA)
surveys: Gaia,
APOGEE, HERMES-
GALAH, 4MOST,
WEAVE, WST...

External Galaxies

Integral Field Unit
(IFU) surveys:
SAURON, MaNGA,
CALIFA, SAMI, Hector,
KMOS, MUSE,
NIRSpec/JWST!

Steering committee

- Chiaki Kobayashi (Hertfordshire), chair
- Stuart Sim (Belfast) for supernovae/transients
- Raphael Hirschi (Keele) for stellar evolution
- Alison Laird (York) for nuclear physics

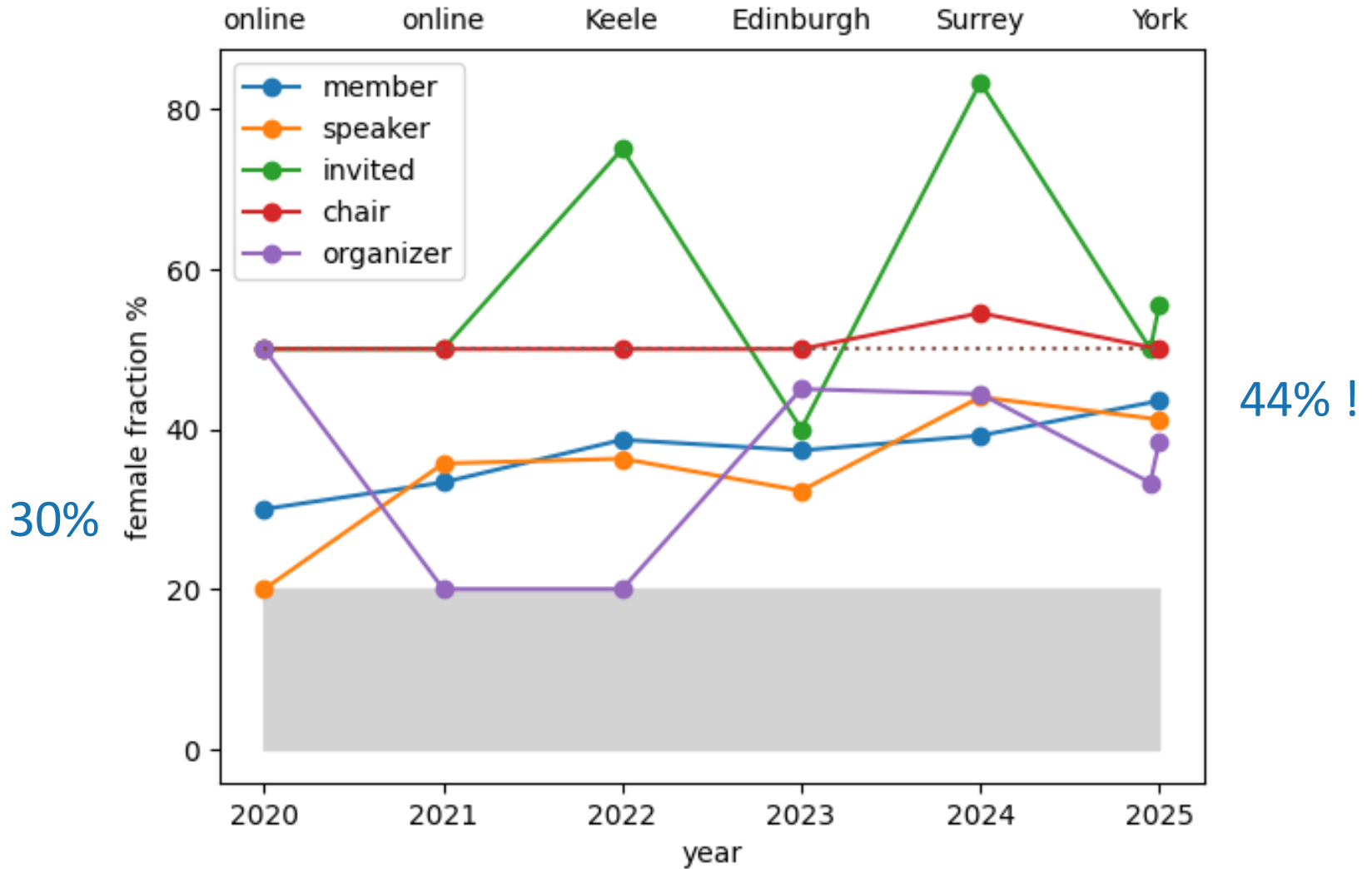
BRIDGCE news

- New member institute – Bath (**Patricia Schady**)
- Keele: **Vishnu Varma** (Royal Society Fellow)
- Belfast: **Erin Higgins** (Leverhulme Early Career Fellow) started
- Portsmouth: STFC Small Grant success - **Luis Dahmeh-Hahn** (PDRA) w Maraston/Thomas
- Newcastle: UKRI/ERC project SYMPHONY, 4 PhD students +3 postdocs incl. **Laura Scott**
- Hertfordshire: 2 PhD students coming (**Alessandro Angrilli Muglia**; **Diederick Vroom** w Rob-Y); 1st-yr (**Alice Ferreira**), finishing (**Dyna Ibrahim**)

BRIDGCE activities 2025/26

- Parallel sessions at **NAM** (National Astronomy Meetings) & **EAS** (European Astronomical Society)
 - NAM #98 Forging the elements: Understanding chemical evolution and stellar populations across cosmic time (9 July 2025) led by **Louise Welsh** (Durham) & **Stephanie Monty** (Cambridge)
 - EAS S8 Cosmic Chemical Enrichment: A tale of stars and galaxies (23-24 June 2025) led by **Federico Sestito** (Herts)
- **BRIDGCE School** (1-3 June 2025) led by **Vishnu Varma** (Keele) & **James Keegans** (Hull), in addition to **AM**
 - Proposed and fully organized by ECRs
- **AM 2026**
 - **Univ. of Hertfordshire** (Hatfield AL10 9AB), **Alice Ferreira** (chair), **Souradeep Bhattacharya** (co-chair), **Federico Sestito** (co-chair)
 - September (depending on the NPA-XII dates/location) or December??
- NAM, EAS in 2026; IAU-GA@Rome in Aug 2027?
- Any ideas, e-mail me! Opportunities for **ECRs/students**, to participate in organizing conferences to acquire management & leadership skills.

Gender Statistics



Special Thanks to

- Funding bodies: IOP, EMMI, STFC, and IReNA
- Anna Frebel & Lauren Henderson, who booked flights <a week, thanks to IReNA's admin support Ana Becerril Reyes & Anna Swartz
- LOC/SOC chair **Sophie Abrahams**
- LOC: **Guy Carter-Richardson; Mohamad Kourmo; Christian Diget; Alison Laird**
- SOC: **Federico Sestito & Souradeep Bhattacharya** made the program, and a few more, see the website for the full list
- Any feedback: e-mail c.kobayashi@herts.ac.uk
- Annual reports are available at <http://bridgce.ac.uk>