

News Feature: The i4is Talk Series - 2020 and 2021

John I Davies

i4is is delivering a series of talks on interstellar topics. Some of these are Open to all and others are for i4is members only.

Members can see past talks via the members' page i4is.org/members/ and the presentations as PDFs at i4is.org/members/member-events/.

Members and non-members can register for future talks by email to talks@i4is.org. The talks are -

2021 First Series

26th January — John Davies — The Interstellar Downlink — Open

Example -

6 Conclusions and ongoing

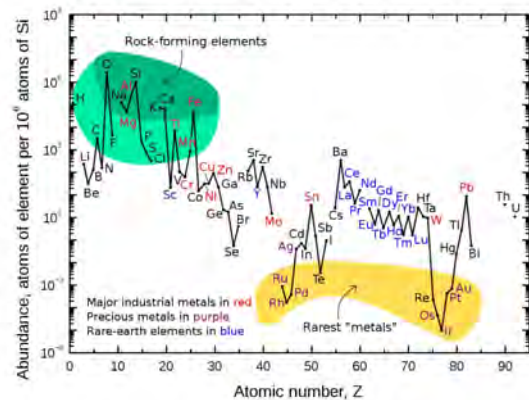
- Distance² is the main problem
- Even more challenging for tiny probes
- RF transmission difficult for tiny probes
- Optical more efficient but major problems with ground-based reception
- Several power source options
- Challenging link budget demands exceptional technology
- If pictures are important then use application-specific FEC?
- The transit time gap for receiver implementation - 4 light years means decades waiting for downlink data from target system

2nd February — Olivia Borgue — Advanced Propulsion 2 (Nuclear etc)

9th February — Adam Hibberd — 'Optimum Interplanetary Trajectory Software', from Interplanetary to Interstellar

16th February — Robert G Kennedy III — Assuring Humanity's Interstellar Mission Capability for Posterity, or, Learning from Bronze Age Mistakes

Example -



23th February — Dan Fries — Interstellar Travel using Einsteinian Physics — Open

2021 Second Series

The next talk series will run weekly from Tuesday 25th May at 8 pm (UK time). If you have previously registered for an earlier talk series, there is no need to do so again. Committed so far -

22nd June: John Davies, Visions of our Interstellar future

29th June: Terry Regan, Modelling Interstellar Spacecraft

2020 Series

The series began in October 2020 -

27th October — Rob Swinney — Introduction to Interstellar Studies

3rd November — Marshall Eubanks — Missions to Interstellar Objects - an i4is Initiative — Open

10th November — Dr Andreas Hein — Worldship Design

17th November — Dan Fries — An Introduction to Advanced Propulsion

24th November — Robert Swinney — Interstellar Precursor Missions

1st December — Patrick Mahon — Science Fiction Interstellar Starships — Open