International LOFAR Telescope





Netherlands Institute for Radio Astronomy

JumpingJIVE WP4

ERIC scope: The International LOFAR Telescope

Objectives JumpingJIVE WP4





- Assessment of possible merits and pitfalls of closer operational alignment of JIVE and ILT, and possibly their merging into one ERIC
 - Can cooperative procedures and governance be optimized for long-term sustainability?
- DELIVER: discussion document for JIVE and ILT governing bodies and stakeholders
 - Possible follow-up outside the scope of this WP

Background (1) JIVE (and EVN)

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Background (2) ILT





Background (3) ILT

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MLOFAR LOFAR System Data Flow

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Background (4) JIVE and ILT





- There appear to be significant scientific & organizational similarities between JIVE and ILT:
 - A distributed international "telescope" network is correlated at a central facility
 - There is a central organization for
 - Data curation
 - Quality control
 - Long-term archive
 - User interfaces & support
 - Development support

International LOFAR Telescope One task Two assessment studies



- Evaluate overlaps/similarities as well as differences
- Start from description of current status
- Assess how changing internal and external circumstances (national, European, and international) may alter the respective positions of JIVE and ILT in the next decade

Discuss associated opportunities, challenges, and risks

Study possible advantages and risks that specific collaborations between JIVE and ILT would entail including a full merger into a combined ERIC

First document: Operational model





- Describe current modus operandi of JIVE and ILT
- Explore likely evolution and enhancement paths
 - Required to stay abreast of expanding technological capabilities as well as growing scientific end-user needs, particularly within the European landscape
- Analyze advantages and risks in bringing operational models and technological efforts more closely into alignment

International LOFAR Telescope Second document: Governance model (1)



- Describe current governance and partnerships
- Explore plausible national, European, and international developments in the next decade w.r.t. funding and collaboration on operating large-scale research facilities in radio astronomy Keeping ESFRI priorities in mind

Assess possible places and roles of JIVE and ILT in light of these possible evolutions of research infrastructures

International LOFAR Telescope Second document: Governance model (2)



Analyze possible advantages, risks, and challenges, of aligning governance and financing models, including discussion of a full merger scenario

Take into account the substantially overlapping membership of JIVE and ILT, and ambitions of both organizations to grow (in part) by acquiring new partners





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