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37th SYMPOSIUM ON THE SEARCH FOR EXTRATERRESTRIAL INTELLIGENCE (SETI) – The
Next Steps (A4.)
SETI I – SETI Science and Technology (1.)

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INTRODUCTION TO SETI SCIENCE AND TECHNOLOGY

Abstract

This brief overview of SETI science and technology is offered for the benefit of those many students attending the SETI I session at the 2008 International Astronautical Congress. These students tend to be long on enthusiasm and short on experience. They can best appreciate the more advanced technical material being presented by the various speakers if they first have a basic understanding of SETI concepts. This introduction explores the nature of radio telescopes, experimental design strategies, SETI instrumentation, signal analysis, and the hallmarks of artificiality which allow us to differentiate between natural astrophysical emissions and intelligent interstellar transmissions.

KEYWORDS

SETI, radio astronomy, radio telescope, signal analysis, existence proof