

The Ohio State University Center for Cosmology
and AstroParticle Physics (CCAPP) presents the
6th Annual R. Jack and Forest Lynn Biard
Lectureship in Cosmology and Astrophysics



SETI: Five Decades of Progress in the Search for Extraterrestrial Intelligence



Wednesday November 7, 2012
8pm - 9pm
McPherson Lab - Room 1000
140 W 18th Ave
Free and open to all

Jill Tarter

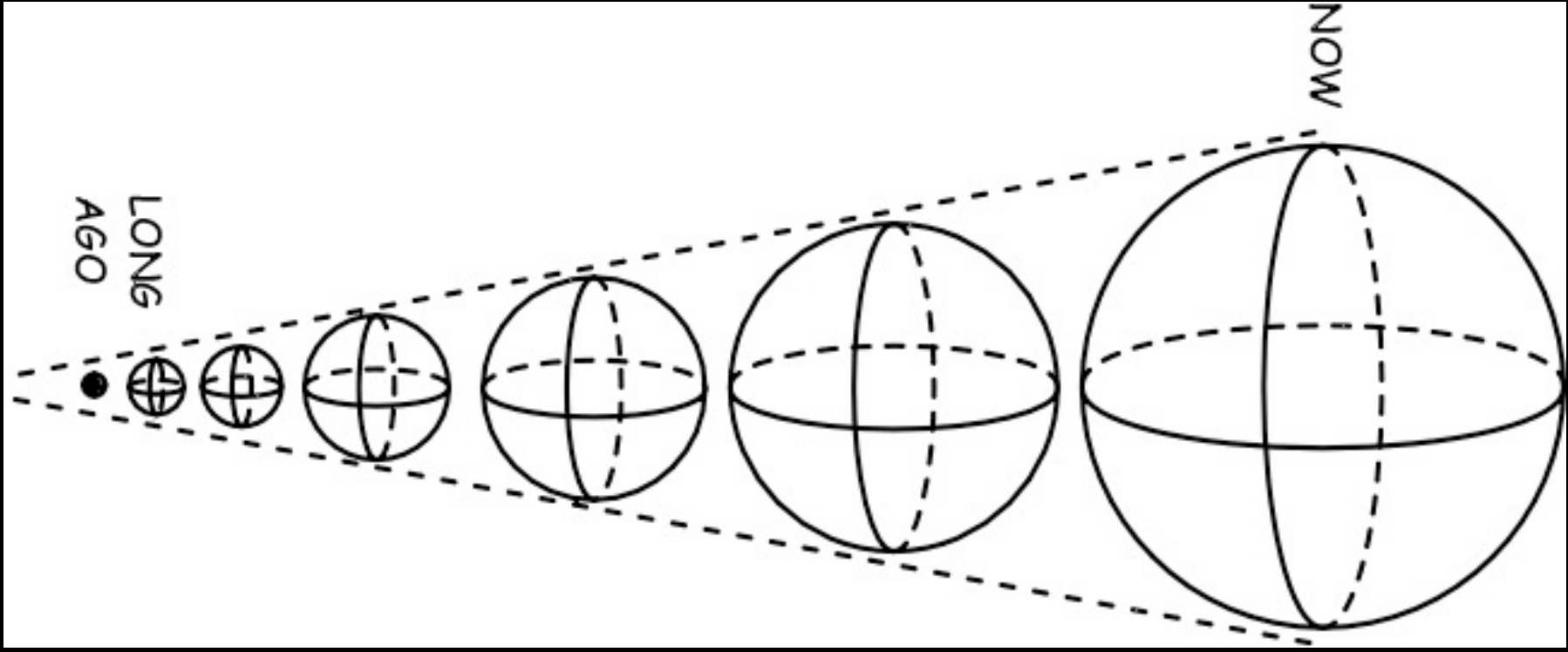
Bernard M. Oliver Chair for SETI
SETI Institute

Well over 100 search programs for extraterrestrial intelligence have been conducted since 1960; none has yet been successful. Critics have suggested that this means that humans are alone in the cosmos, but this is far too strong a conclusion to draw from too small an observational sampling. (Like pulling a glass of water from the ocean and finding no fish.) In 50+ years our ability to search for electromagnetic signals has improved by at least 14 orders of magnitude and will continue to improve at an exponential rate, which may well uncover evidence of a type of intelligence we are not yet wise enough today to predict.

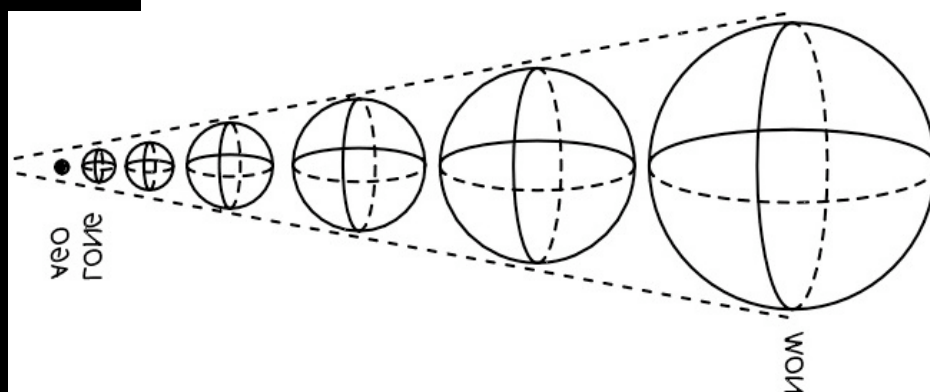
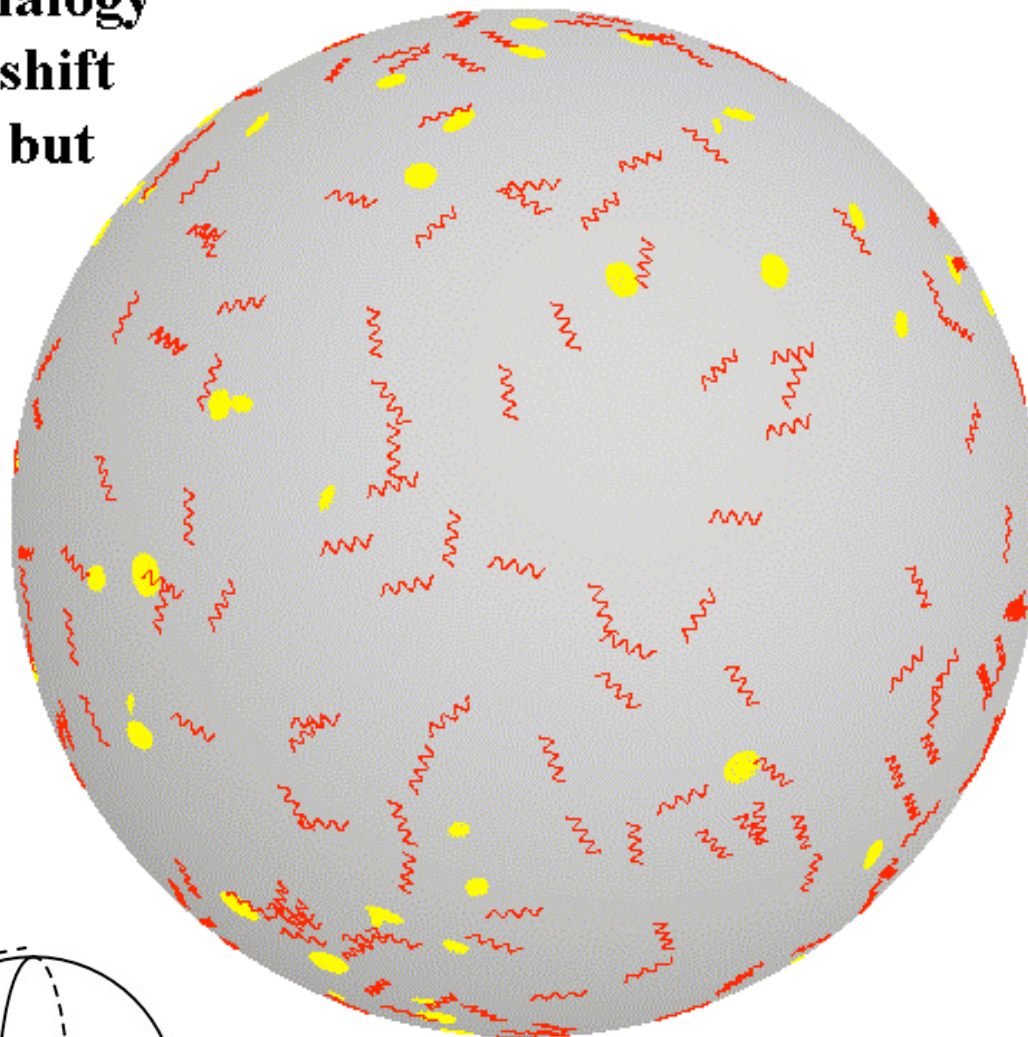
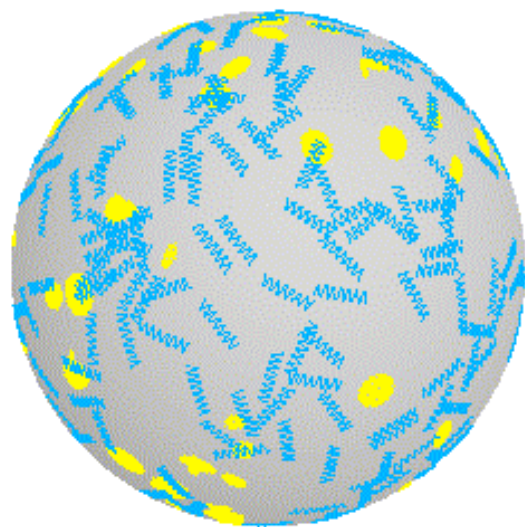
Jill Tarter holds the Bernard M. Oliver Chair for SETI (Search for Extraterrestrial Intelligence) at the SETI Institute in Mountain View, California. In 2004 Time Magazine named her one of the Time 100 most influential people in the world. Tarter was one of three Technology Entertainment Design (TED) prizewinners in 2009, and was a recipient of the Silicon Valley Women of Influence 2010 Award.

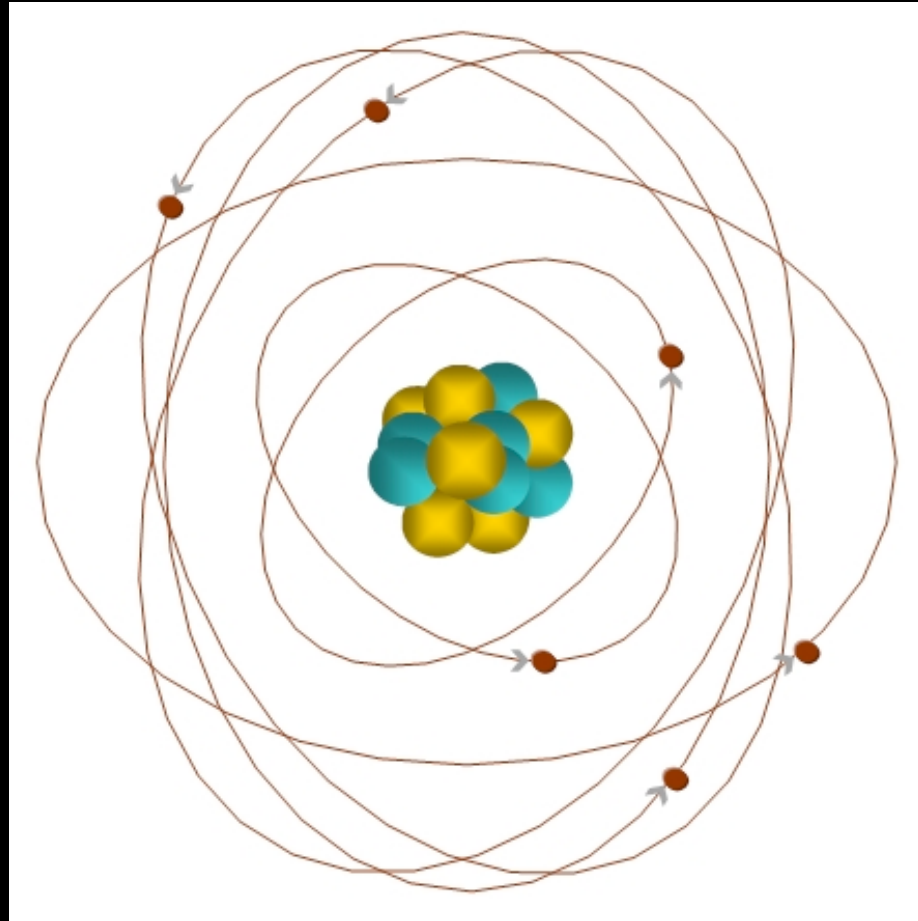
Many people are now familiar with her work as portrayed by Jodie Foster in the movie *Contact*.

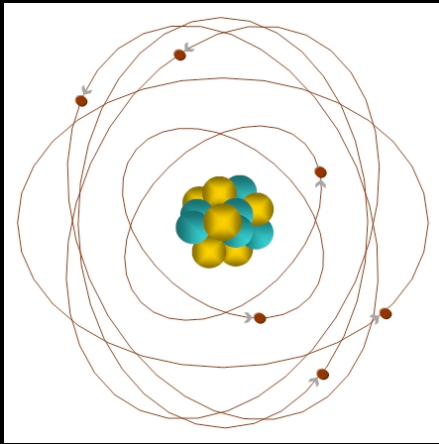




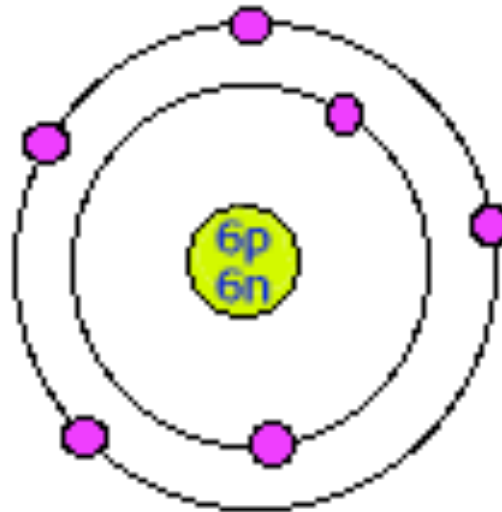
Expanding Balloon Analogy
Photons move and redshift
Galaxies spread apart but
stay the same size





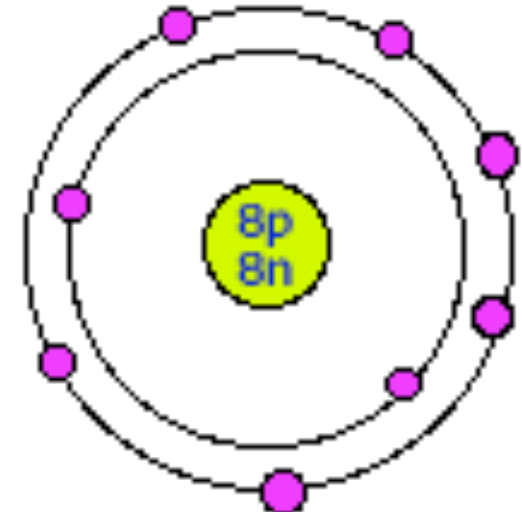


Carbon (C)



outer electron shell
contains 4 electrons

Oxygen (O)



outer electron shell
contains 6 electrons