

4CF12-2012-020019

Abstract for an Invited Paper  
for the 4CF12 Meeting of  
the American Physical Society

### **The Expanded Very Large Array Project**

RICK PERLEY, NRAO

The Expanded Very Large Array Project, begun in 2001, is now completed – on time, on budget, and “on spec.” The major goal of the project was to multiply the key observational capabilities of the Very Large Array – the world’s most powerful, versatile, and productive radio telescope – by a factor of at least an order of magnitude by implementation of modern technologies. The result of the project is an operationally new telescope – renamed the Jansky Very Large Array – which is capable of new science unimagined in 1980, when the original VLA was completed. In this talk, I will review the goals of the project, and describe the new capabilities of the Jansky Very Large Array. Already, the array is providing fabulous new insights into the physics of the universe, and I will spend the majority of the time describing examples of new results.