

# Cryomodule Repair & Maintenance Facility (CRMF)

SLAC Mission

---

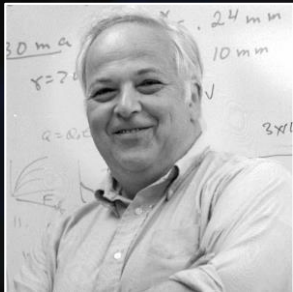
Vitaly Yakimenko, Deputy Director of Projects and Infrastructure

CRMF Industry Day  
30 January 2025



# Research at SLAC has led to and enabled fundamental discoveries since the laboratory's founding in 1962

## A History of Discovery and The Age of Colliders



Burton Richter,  
1976 Nobel Prize  
in Physics (joint)  
for discovery  
of the J/psi  
subatomic particle



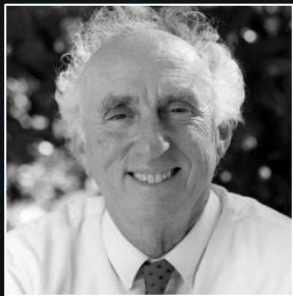
Positron-  
Electron  
Project  
(PEP), 1980-  
1990



Richard Taylor,  
1990 Nobel Prize  
in Physics (joint)  
for demonstrating  
the existence  
of quarks



Stanford  
Linear  
Collider  
(SLC), 1987-  
1997

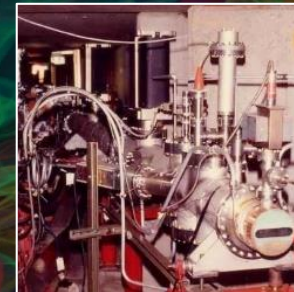


Martin Perl,  
1995 Nobel Prize  
in Physics for  
discovery of  
the tau lepton  
elementary  
particle

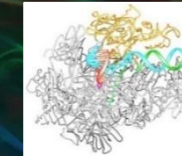


PEP-II,  
1998-2008

## Synchrotron and X-ray Research



Stanford Synchrotron Radiation  
Project (now the Stanford Synchrotron  
Radiation Lightsource, SSRL), 1974



3D atomic images of  
RNA polymerase II



Roger Kornberg, 2006 Nobel Prize in  
Chemistry for determining how DNA's  
genetic blueprint is read & used to direct  
the process of protein manufacturing

Brian Kobilka  
(Stanford), 2012  
Nobel Prize in  
Chemistry for  
work on G-  
protein-coupled receptors

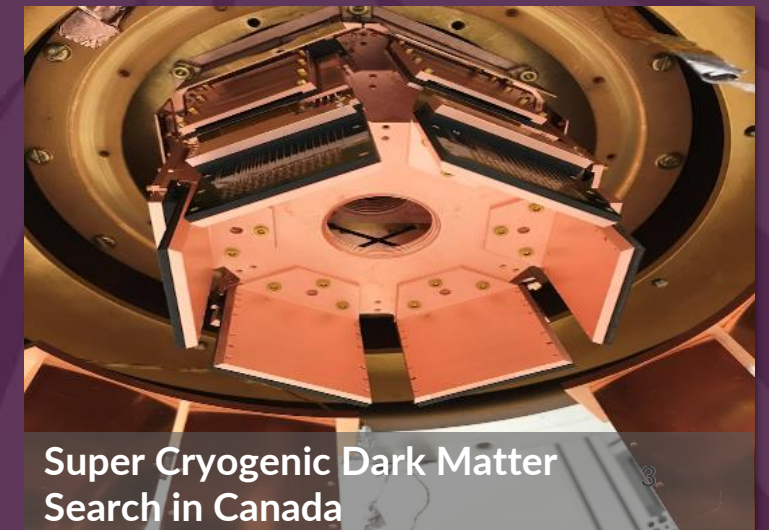
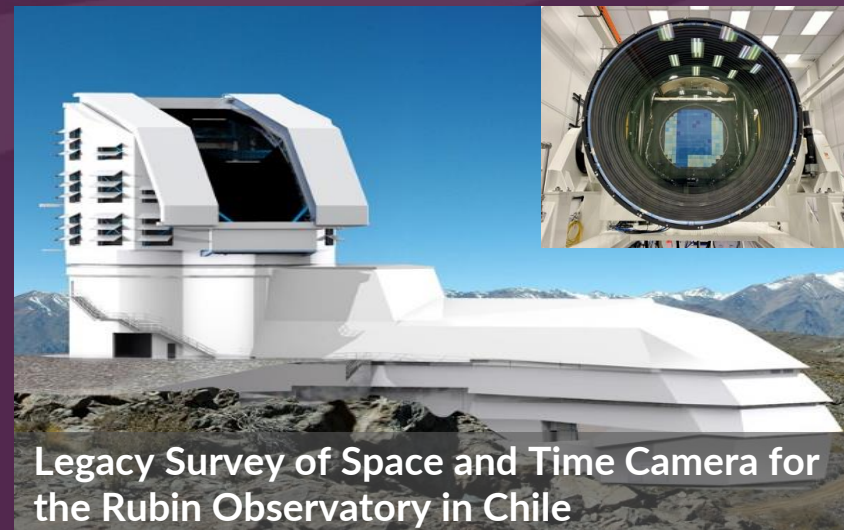
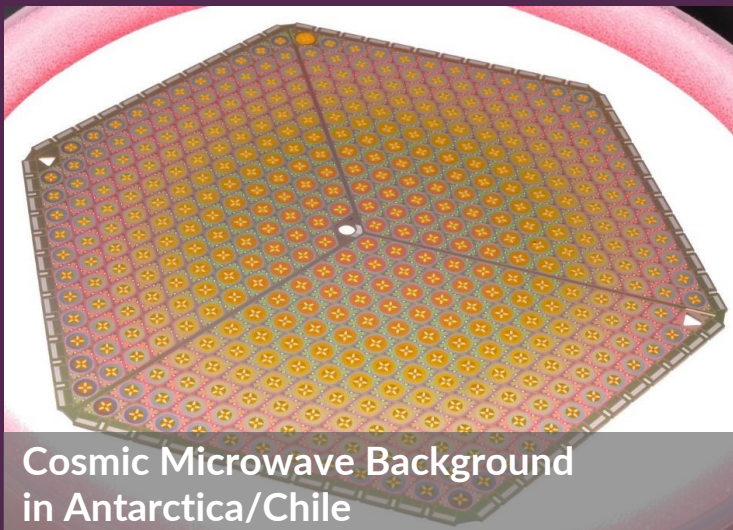
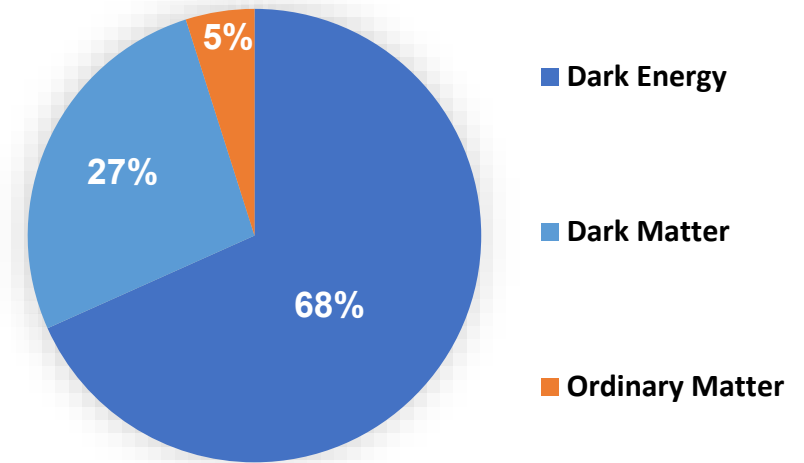
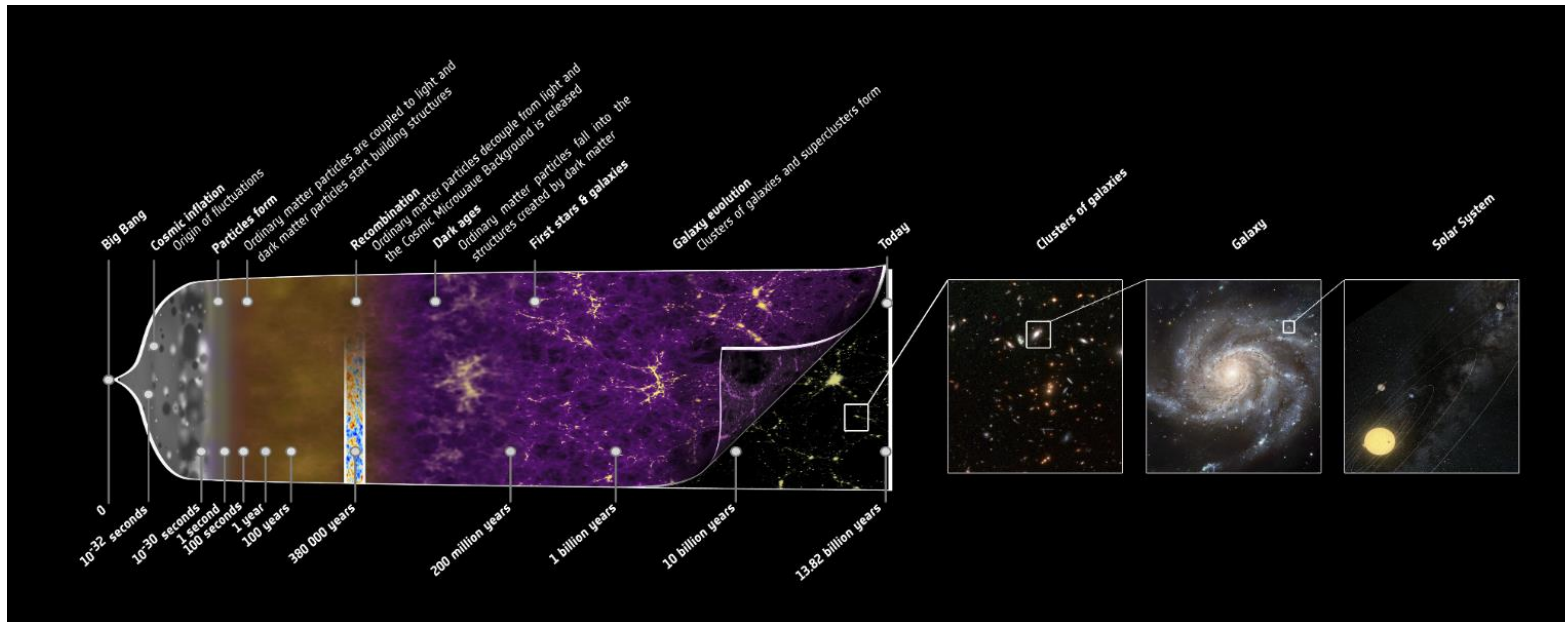


Frances Arnold  
(Caltech), 2018  
Nobel Prize in  
Chemistry for  
inventing  
directed enzyme evolution





# SLAC also designs, constructs, and operates large-scale instruments to explore beyond the known universe





# Significant investment from Stanford continues to transform the lab, providing new infrastructure and capabilities





An aerial photograph of a long, multi-story industrial building with a corrugated metal roof, illuminated at dusk. The building is surrounded by trees and a paved area. A large white diamond shape is overlaid on the center of the image, containing the text "Thank You".

*Thank  
You*



U.S. DEPARTMENT OF  
**ENERGY**

Stanford  
University

**SLAC**

NATIONAL  
ACCELERATOR  
LABORATORY