

# **David Chuss, PhD**

**Professor and Chair of Physics at Villanova University**

Villanova, PA, US

David Chuss, PhD, has worked at NASA Goddard Space Flight Center and studies astronomical polarimetry and magnetic fields.

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## **Biography**

David Chuss develops instrumentation to study the polarization of long wavelength light from astrophysical phenomenon to learn about the universe. He has worked on projects exploring the cosmic microwave background, which is thermal radiation from the beginning of the universe. Most recently, he led a team that developed a new camera for NASA's Stratospheric Observatory for Infrared Astronomy that measures the polarization of radiation from clouds, which unveils the magnetic fields that can affect the star formation process. Prior to coming to Villanova, Chuss worked as an astrophysicist at NASA's Goddard Space Flight Center.

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## **Areas of Expertise**

Astrophysical Magnetic Fields, Cosmology, Astronomical Polarimetry, Galactic Center, Star Formation

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## **Education**

**Northwestern University**

Ph.D.

**The Pennsylvania State University**

M.S.

**Villanova University**

B.S.

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## **Select Accomplishments**

**Goddard Exceptional Achievement for Science**

2013

**Goddard Special Act Award (CLASS)**

2010

**Goddard Special Act Award (PIPER)**

2009

**NSF Antarctica Service Medal of the United States of America**  
**2000**

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