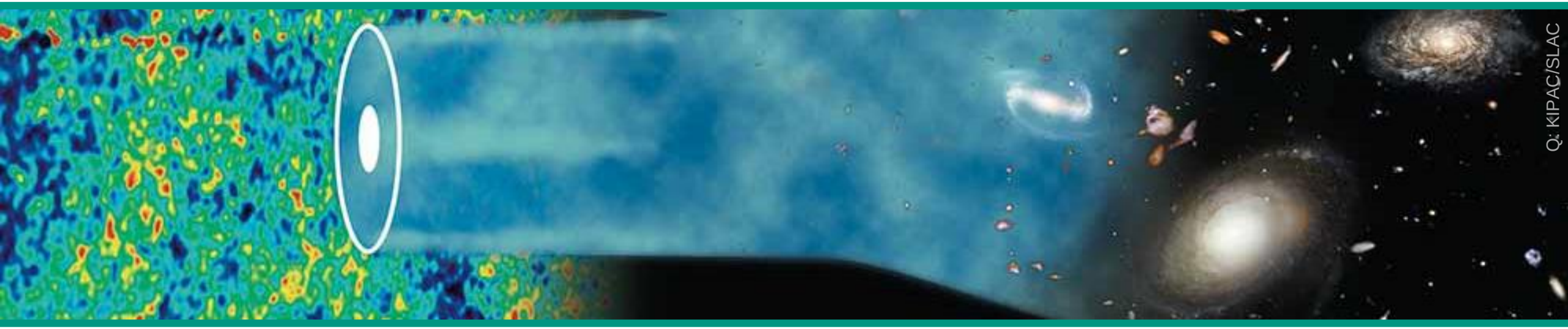
Karlsruhe Institute of Technology

Introduction to Cosmology

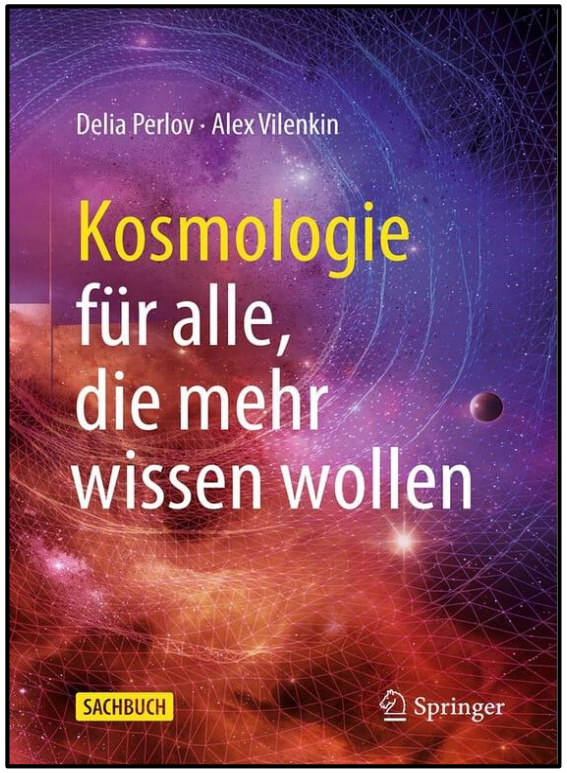
WS22/23 Books & publications Oct. 25, 2022



Cosmology – recommended books (in D)

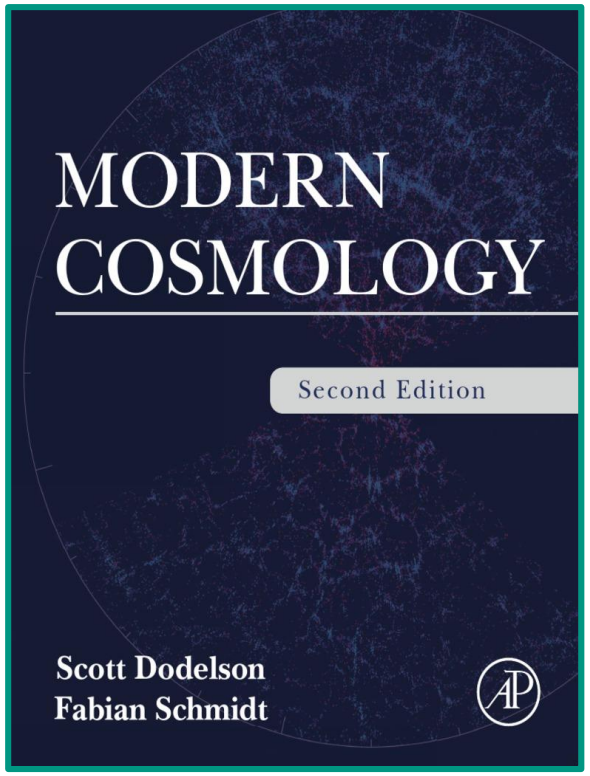
M. Bartelmann RECOMMENDED
Das kosmologische SM
Springer Spektrum, 2019

U. Ellwanger
Vom Universum zu El.-Teilchen
Springer Spektrum, 2019

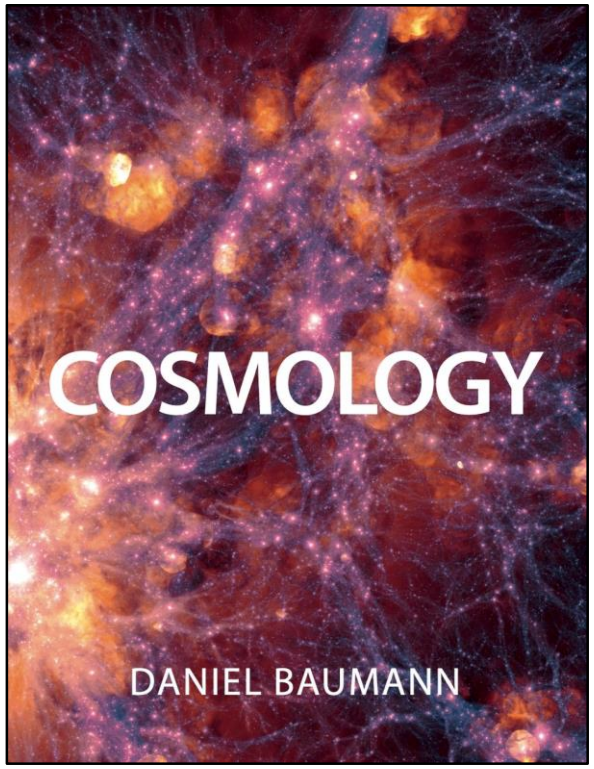


D. Perlov, A. Vilenkin
Kosmologie für alle, die mehr wissen wollen | SpringerLink, 2021

Cosmology – recommended books (in GB)

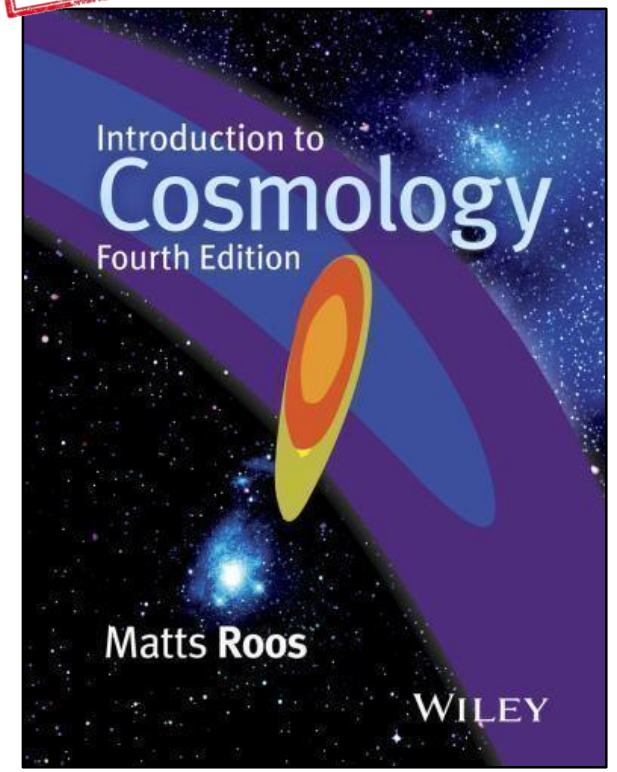


S. Dodelson & F. Schmidt
Modern Cosmology
Academic Press, 2021



Daniel Baumann
Cosmology (new ed.)
Cambridge, 2022

CLASSIC



Matts Roos
Introduction to Cosmology
Wiley, 2015

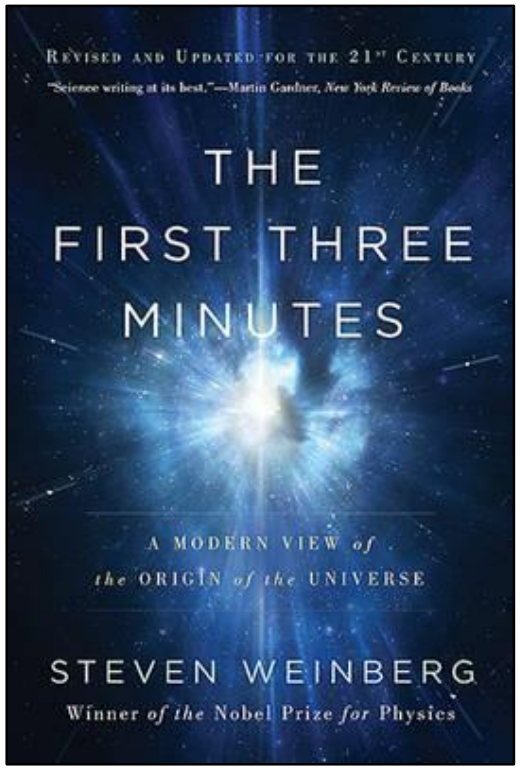
Cosmology – ´popular science´ Spektrum (D)

H. Hetznecker
Kosm. Strukturbildung
Spektrum, 2009

H. Hetznecker
Expansion Universum
Spektrum, 2009

A. W. A. Pauldrach
Dunkle Energie
Spektrum, 2009

Further infos – „the introduction“ to cosmology



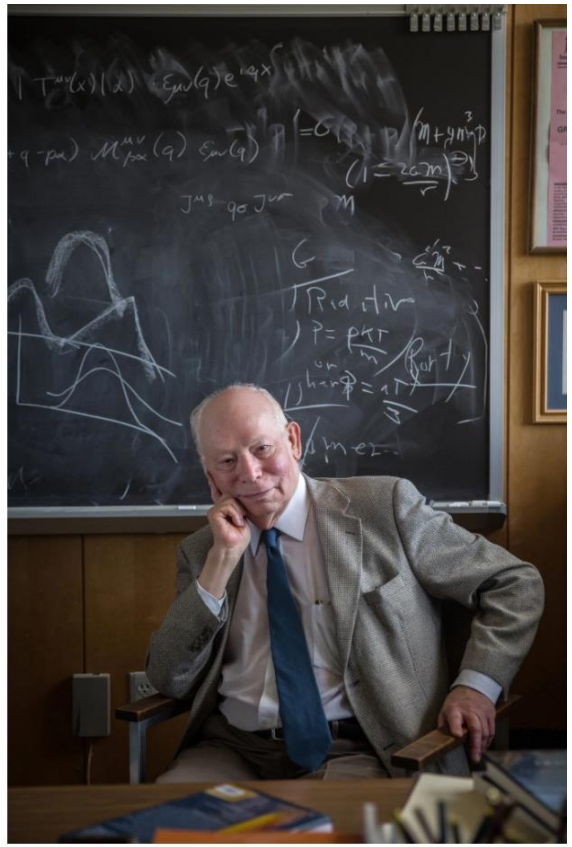
The New York Times

Steven Weinberg, Groundbreaking Nobelist in Physics, Dies at 88

His discoveries deepened understanding of the basic forces at play in the universe, and he took general readers back to its dawn in his book "The First Three Minutes."

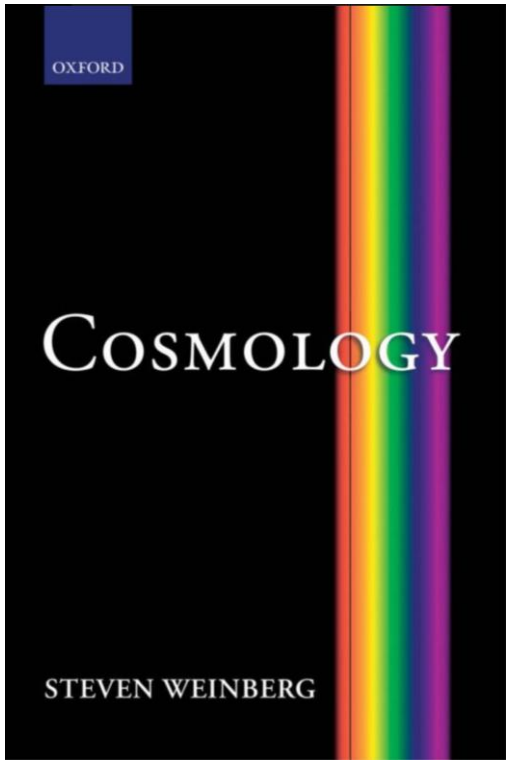
RECOMMENDED

Steven Weinberg
The first three minutes
Spektrum, 2009

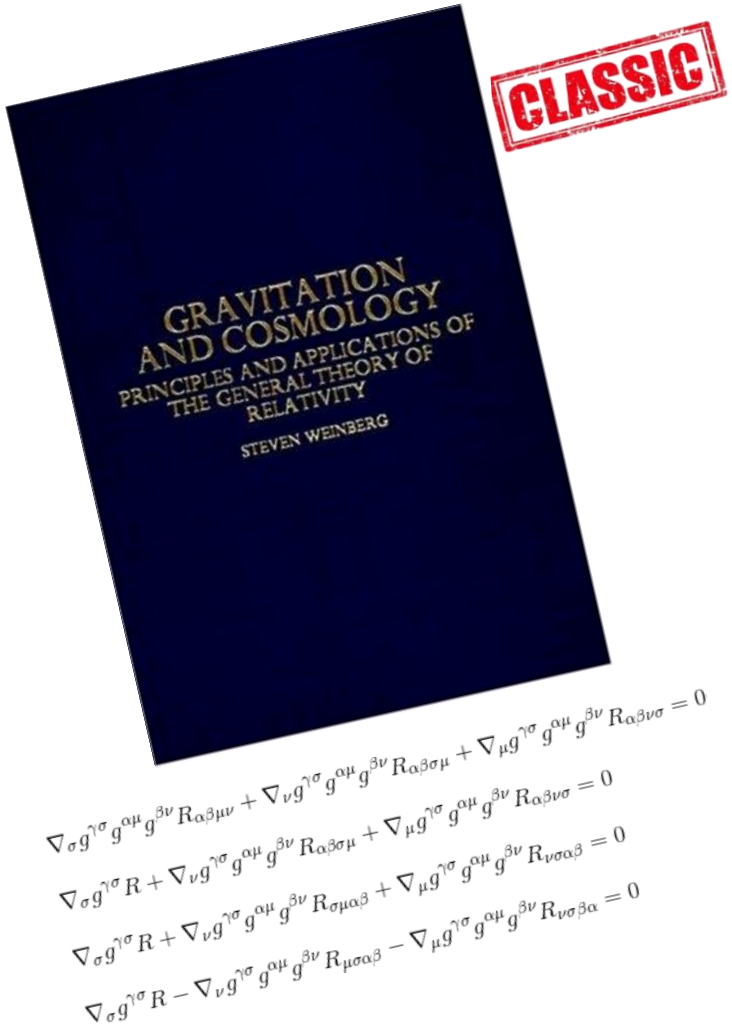


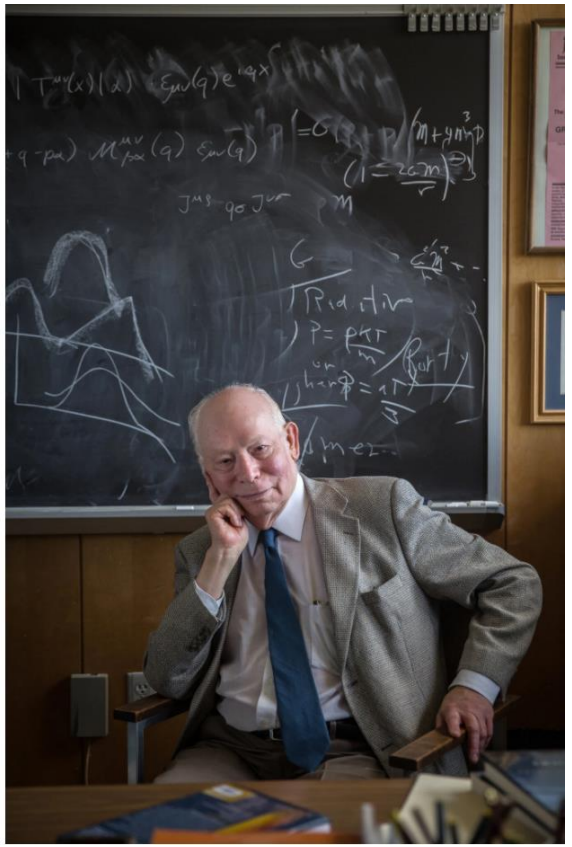
Dr. Steven Weinberg at the University of Texas at Austin. Though he had the respect, almost awe, of his colleagues for his scientific abilities, he also possessed a rare ability among scientists to communicate and explain abstruse scientific ideas to the public. Tamir Kalifa for The New York Times

Theory bible – „the introduction“ to cosmology



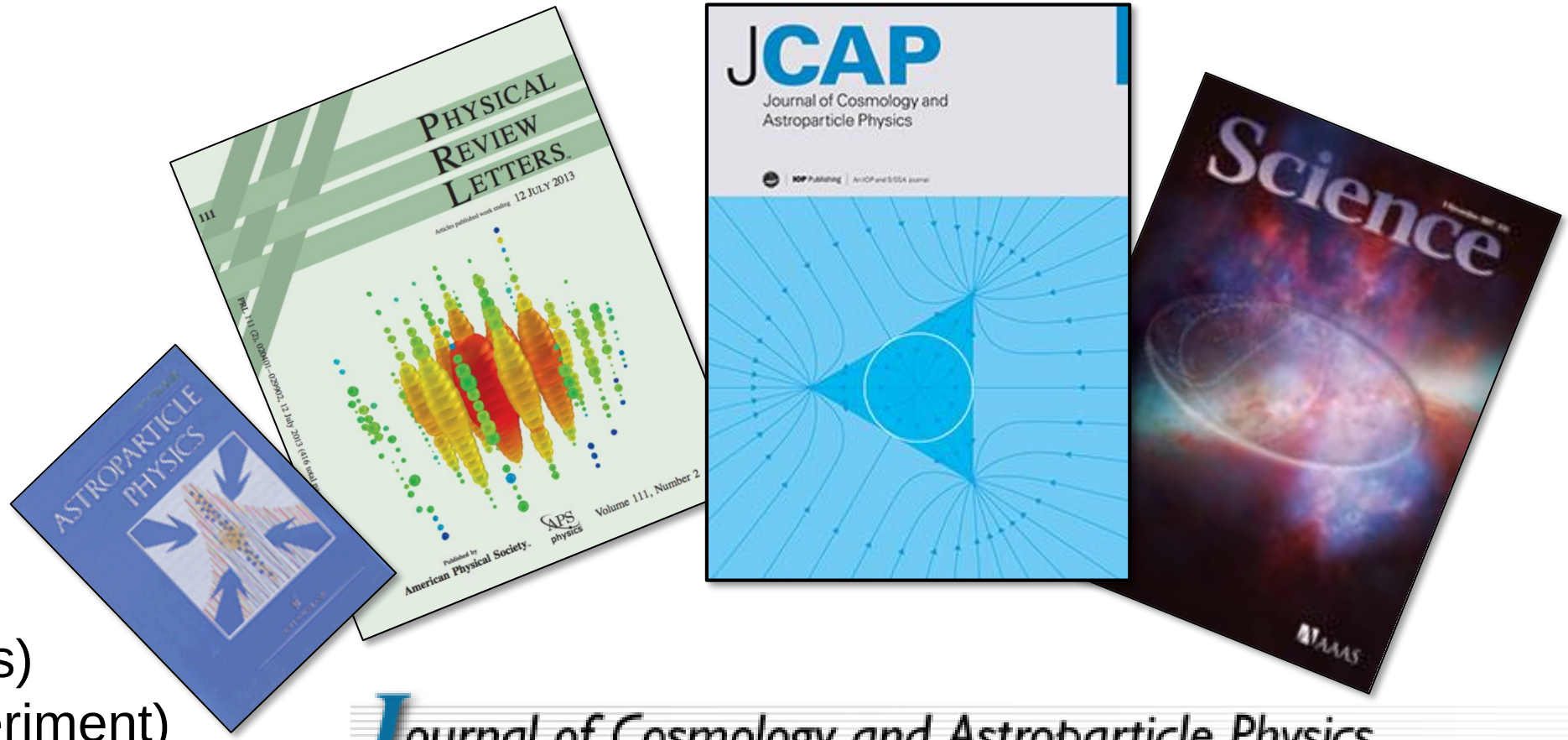
Steven Weinberg
Cosmology
Oxford, 2008





…for the theorist in us all…

Cosmology – further information



arXiv.org

astro-ph (astrophysics)
hep-ex, nucl-ex (experiment)
hep-ph (phenomenology)

Journal of Cosmology and Astroparticle Physics
an IOP and SISSA journal