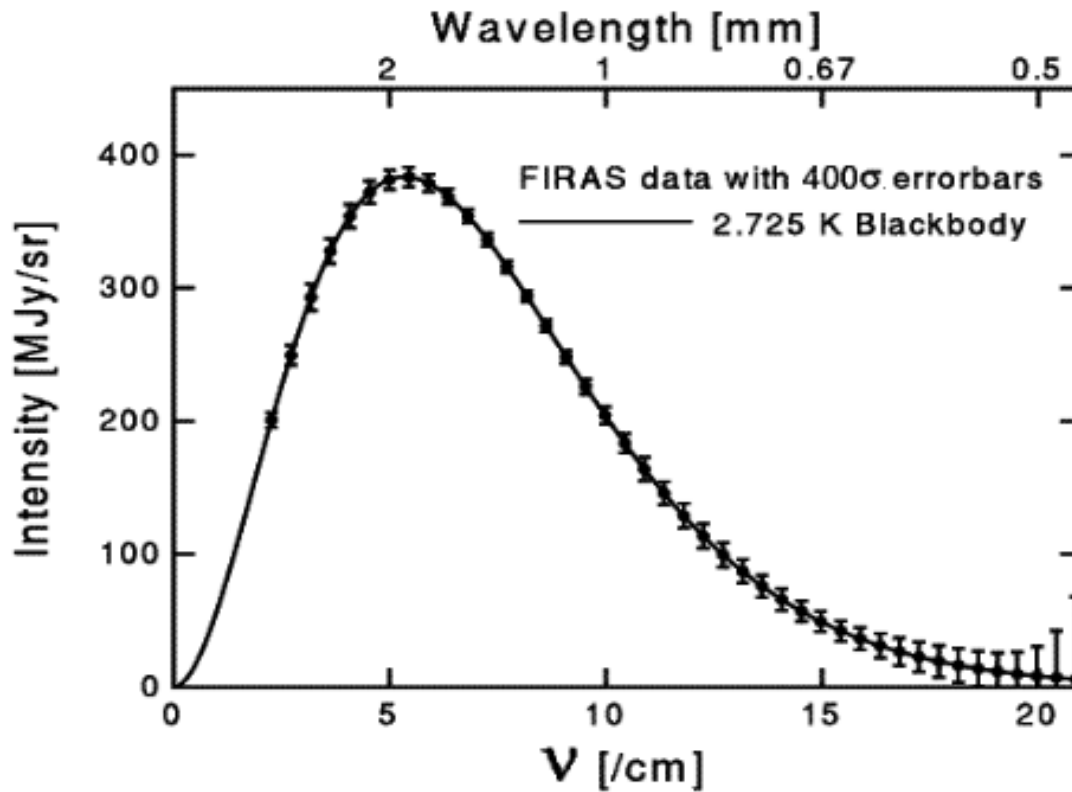


# Kozmološko mikrovalovno ozadje (Cosmic Microwave Background)



spekter črnega  
telesa z  $T=2.725$  K

# History of the Universe

veliko poenotenje

$e^-$ ,  $e^+$ ,  $p$ ,  
rahal presežek snovi  
nad anti-snovjo

nukelosinteza

BIG BANG

Inflation

Accelerators  
LHC  
Tevatron  
RHIC

high-energy cosmic rays

possible dark matter relics

cosmic microwave radiation  
visible

$t$	$10^{-44}$	$10^{-37}$ s
$T$	$10^{32}$	$10^{28}$
$E$	$10^{19}$	$10^{15}$

$10^{-10}$ s
$10^{15}$
$10^2$

$10^{-5}$ s
$10^{12}$
$10^{-1}$

$10^2$ s
$10^9$
$10^{-4}$

$3 \times 10^5$ y
3000
$3 \times 10^{-10}$

$10^9$ y
15
$10^{-12}$

$12 \times 10^9$ y (sec,yrs)
2.7 (Kelvin)
$2.3 \times 10^{-13}$ (GeV)

Today

masivni delci le še  
razpadajo

kvarki se vežejo  
v hadrone

<b>Key:</b>	W, Z bosons	photon
q quark	meson	galaxy
g gluon	baryon	star
e electron	ion	black hole
$\mu$ muon	atom	
$\tau$ tau		
$\nu$ neutrino		