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The mysteries of Neutrinos

“unraveling the fundamentals of reality around us”

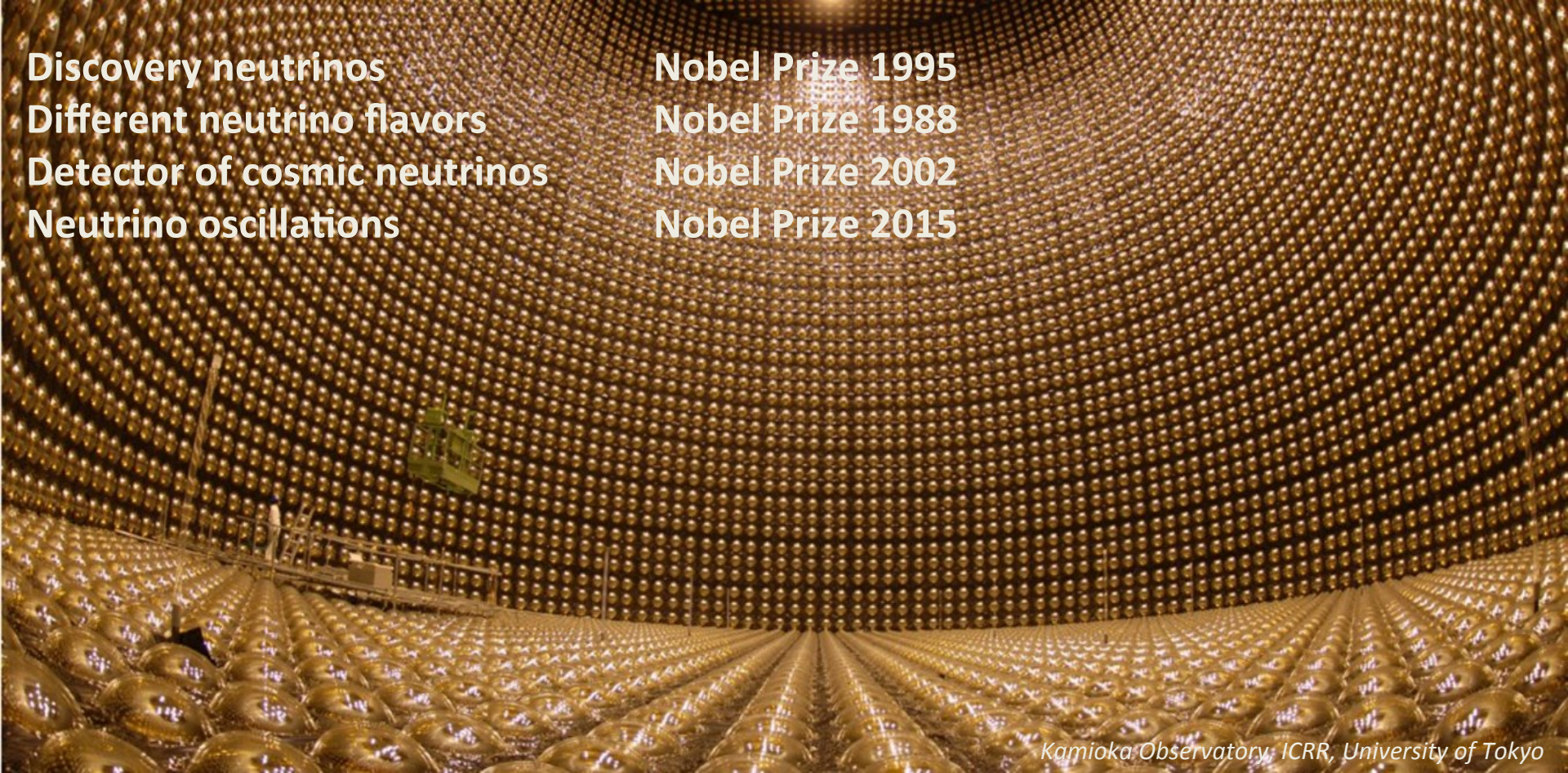
BR2 inauguration – October 28, 2016

SCK-CEN

Jorgen D’Hondt

Discovery neutrinos
Different neutrino flavors
Detector of cosmic neutrinos
Neutrino oscillations

Nobel Prize 1995
Nobel Prize 1988
Nobel Prize 2002
Nobel Prize 2015

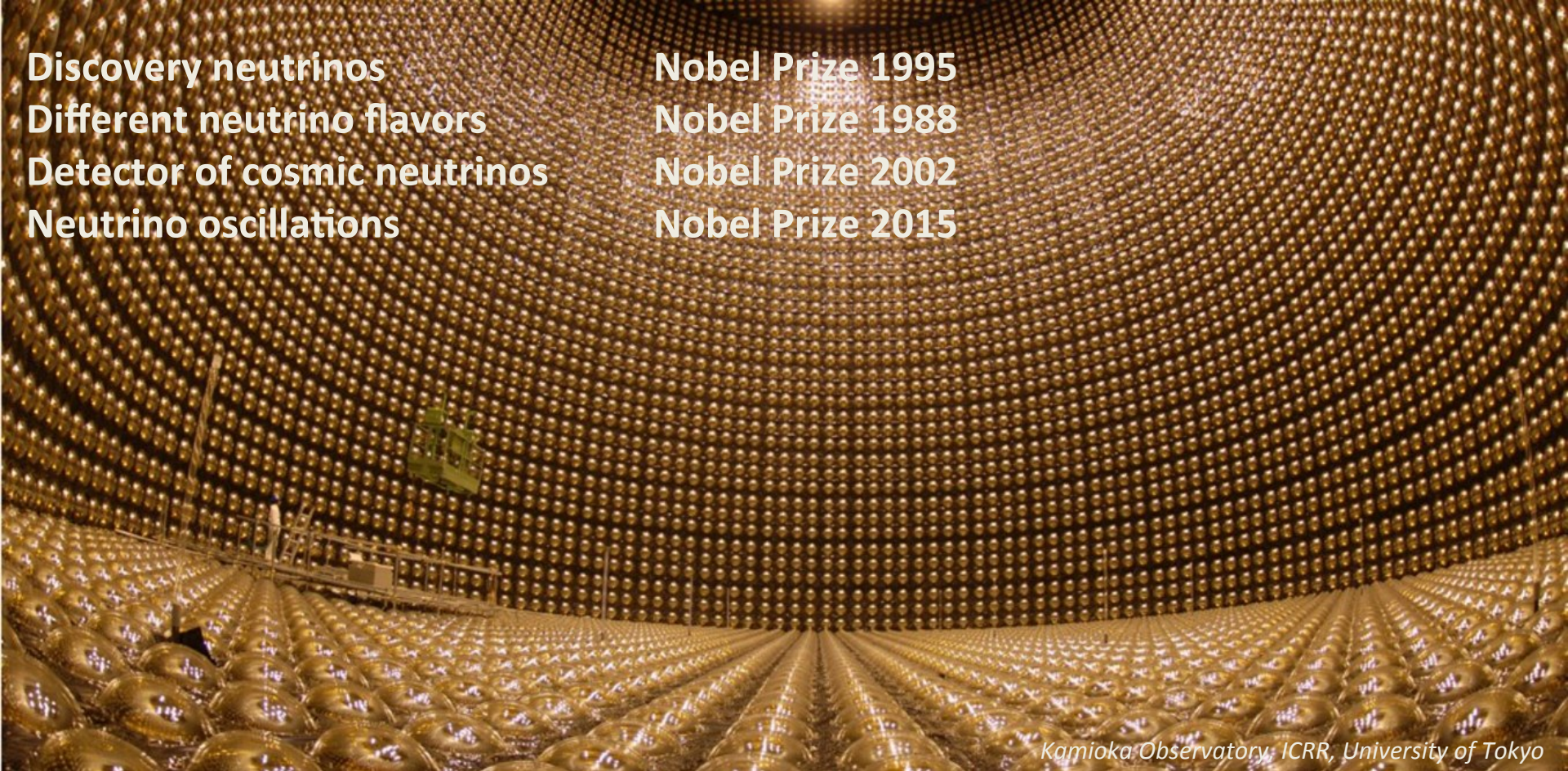


Kamioka Observatory, ICRR, University of Tokyo



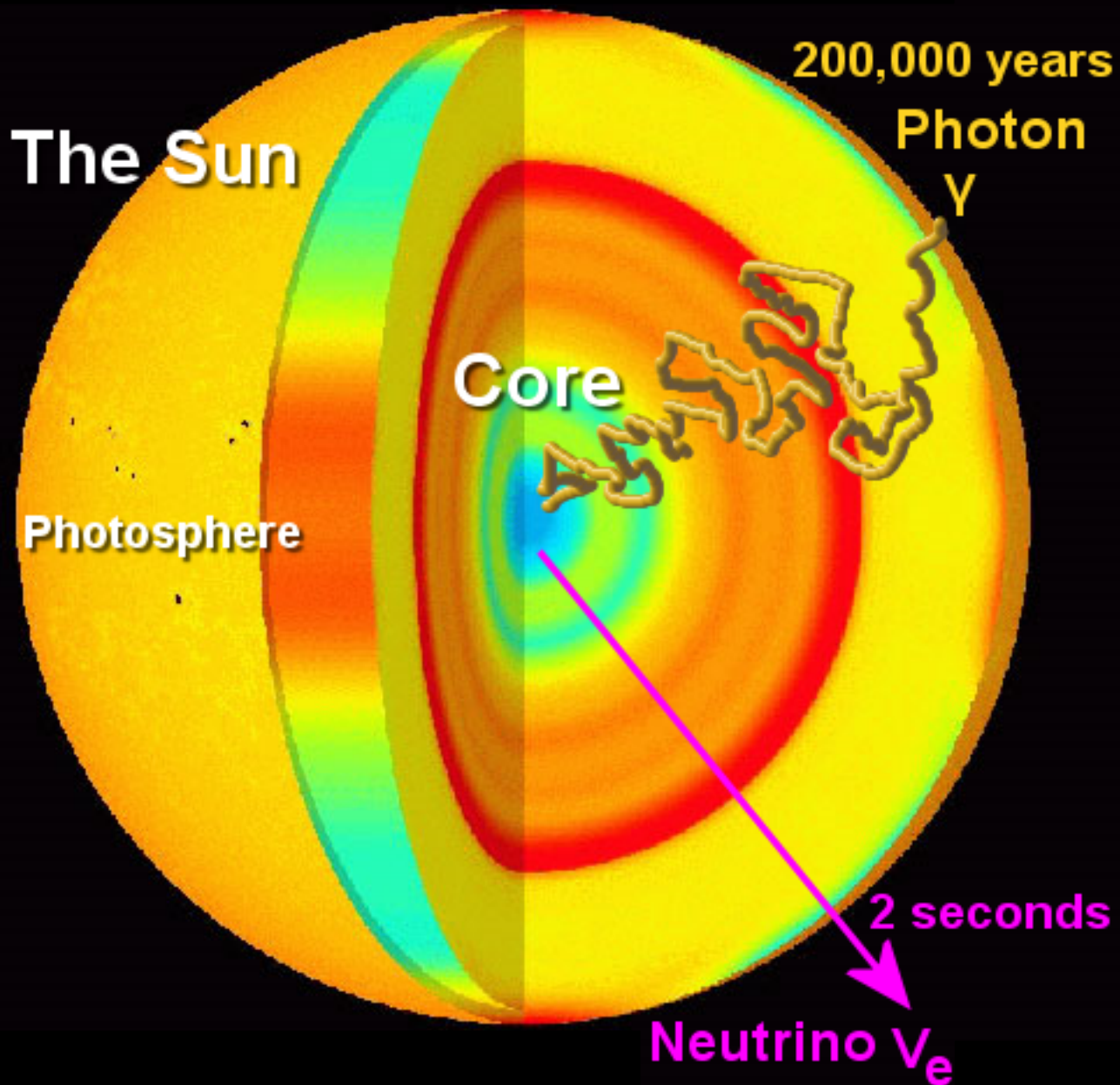
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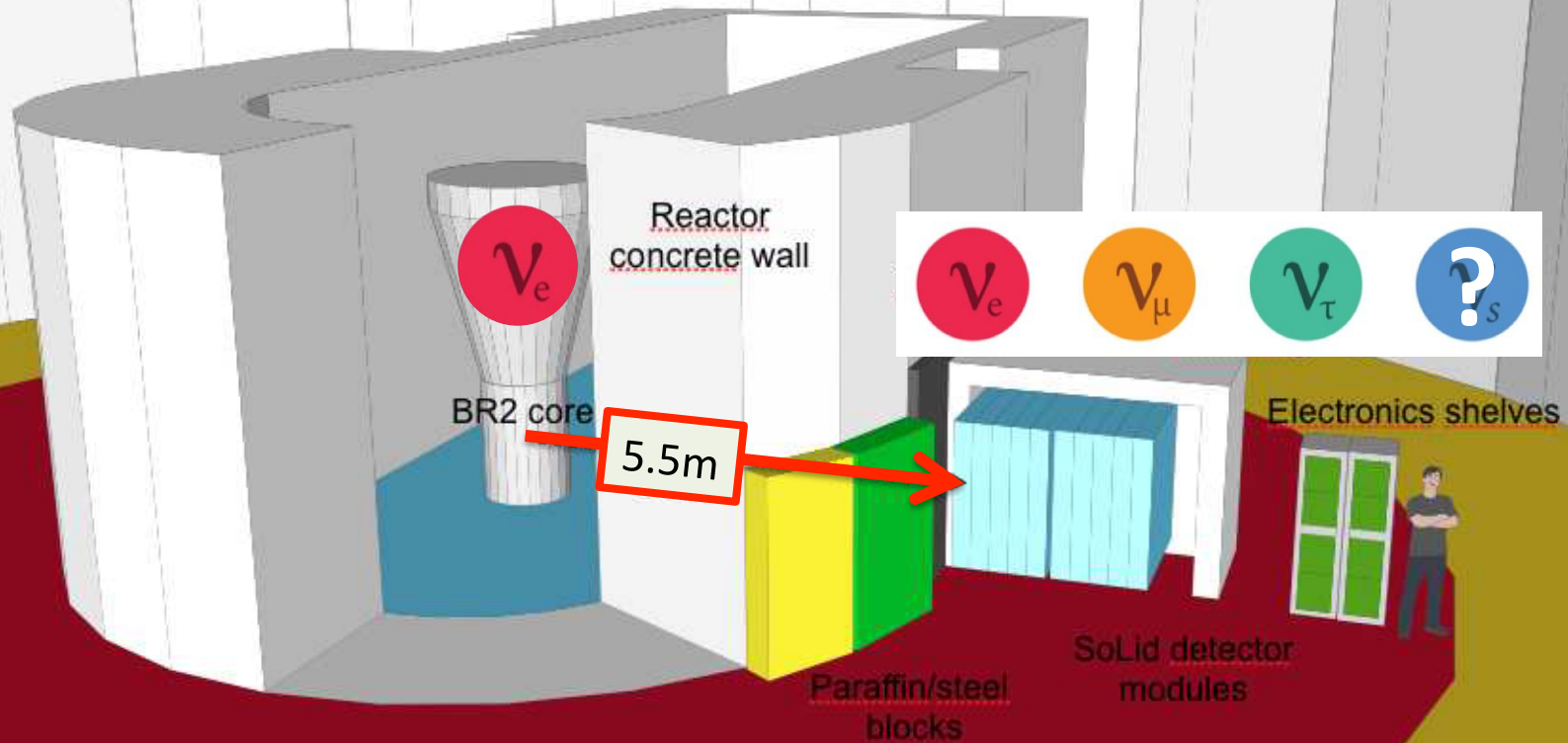
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65 billion neutrinos per second per cm^2 on Earth

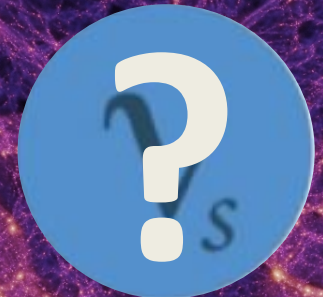
The SoLid experiment



Potential to discover oscillations to a fourth kind of neutrino particle

The scaffolding of Dark Matter in our universe

125 Mpc/h





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The BR2 facility is a unique place for fundamental research into one of the most fascinating scientific questions of our times:
“what holds our universe together” ?