

Yasunori Yamazaki

senior visiting scientist, RIKEN (professor emeritus, Univ. Tokyo)

Research Field: Antimatter science with low energy/ultra-cold* antiparticles
(低エネルギー/極低温反物質科学)

*High precision measurements require long measurement time (uncertainty principle)

Purpose: Search for the matter-dominant universe via missing antimatter
(消えてしまった反物質で物質優位の宇宙を探る)

Approach: High precision measurements** of antiproton and antihydrogen
(反陽子と反水素の超高精度測定)

**The magnetic moment of antiproton was once determined with higher precision than that of proton, the most abundant element in the universe!

Tool: Antiproton decelerator at CERN

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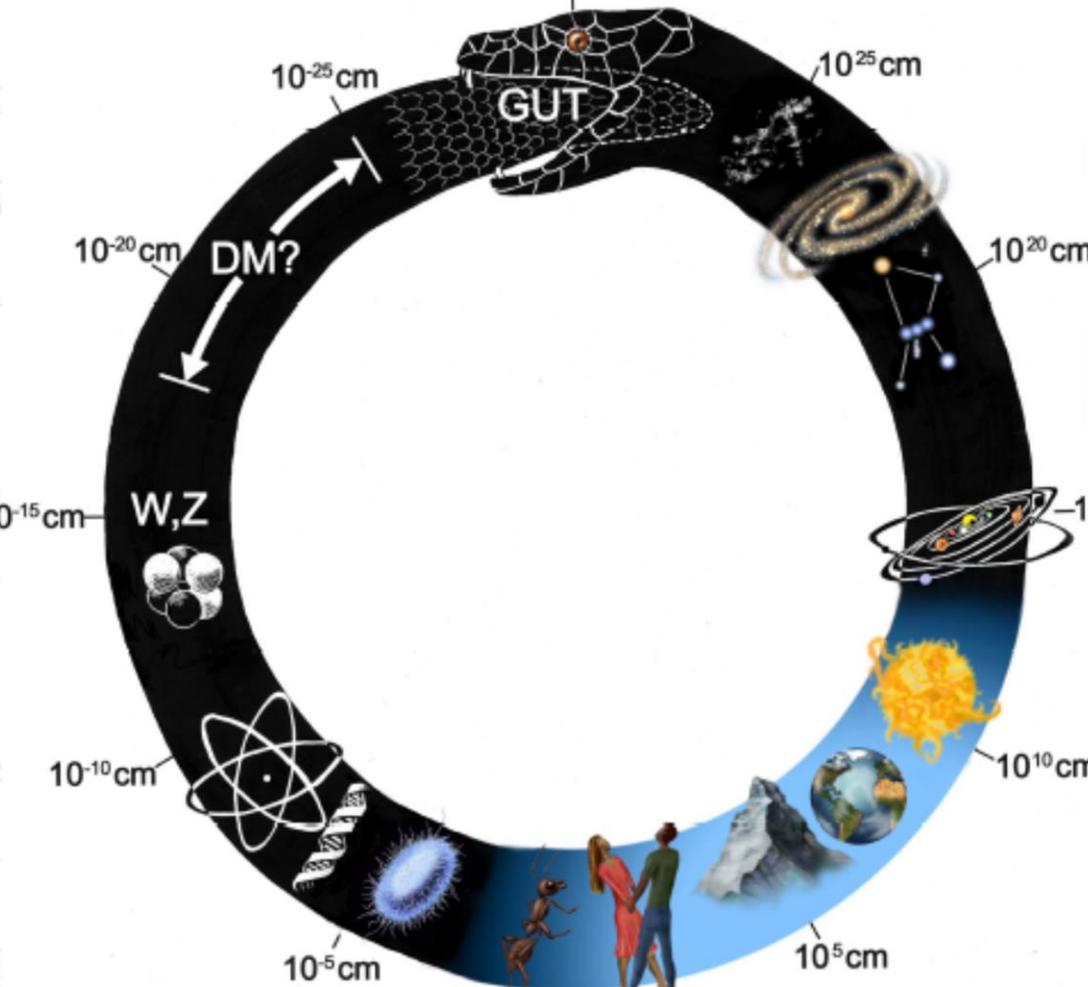
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Approach: High pre

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Research Field

*High precision
principle)

Purpose: Search
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Approach: High
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**The magnet is made of iron, which has 10 times higher magnetic permeability than that of proton, the most abundant element in the universe!

Tool: Antiproton decelerator at CERN

