

Wednesday, **November 25**, 2020, 3.30 pm



Roman S. Ingarden Memorial Session

organized by

National Center for Quantum Information (KCIK)

*endorsed by **Polish Physical Society***



2020 KCIK Prizes:

Golden Prize - KCIK AWARD - competition still open !

Silver - best Ph.D. Thesis : Michał Parniak (Warsaw)

Bronze - best Master Thesis: Filip Maciejewski (Warsaw)

Distinguished Ph.D. Thesis: Katarzyna Siudzińska (Toruń)
invited talks at May Symposium on Quantum Information

Junior Award:

2020 best Bachelor Thesis: Karol Łukanowski (Warsaw)
Marcin Rudziński (Cracow)



European Quantum Future Academy
Berlin, Nov. 2020 → 2021

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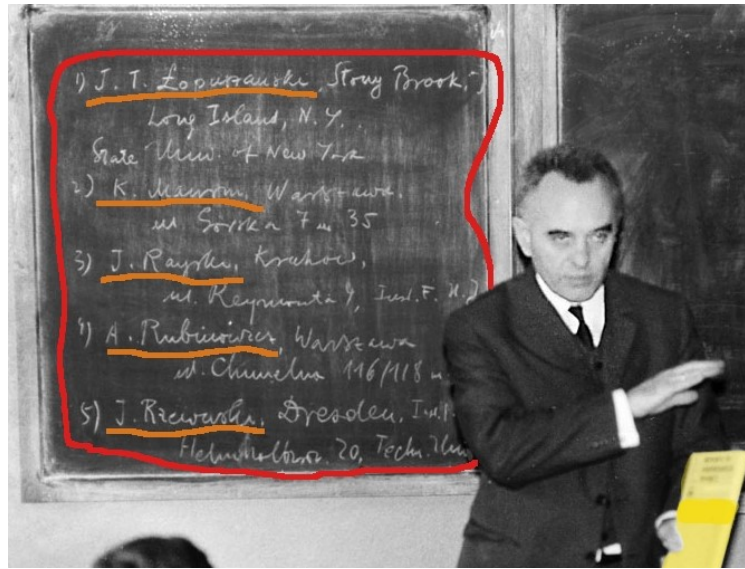


<KCIK>



Roman S. Ingarden Memorial Session

two distinguished talks:



R.S. Ingarden Session – Distinguished Talks

Jury of the competition:

Mohamed Bourennane (Stockholm)

Berthold-Georg Englert (Singapore)

Beatrix Hiesmayr (Vienna)

Kavan Modi (Melbourne)

Massimo Palma (Palermo)

Łukasz Rudnicki (Gdańsk) - secretary

QUANTUM INFORMATION THEORY

ROMAN S. INGARDEN

Institute of Physics, Nicholas Copernicus University, 87-100 Toruń, Poland

(Received December 13, 1975)

Von Neumann, [66], [67], V.2, introduced the concept of entropy (information) of a quantum (mixed) state ϱ (3.3) as

$$\underline{H(\varrho)} := -\text{Tr}(\varrho \ln \varrho) = - \sum_{n=1}^{\infty} p_n \ln p_n. \quad (3.5)$$



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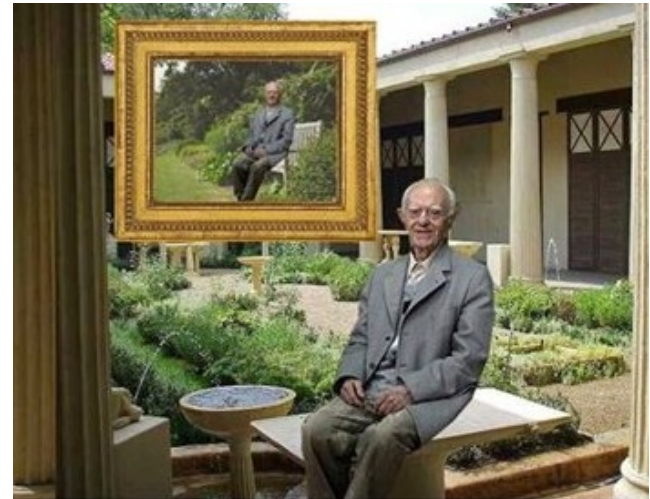
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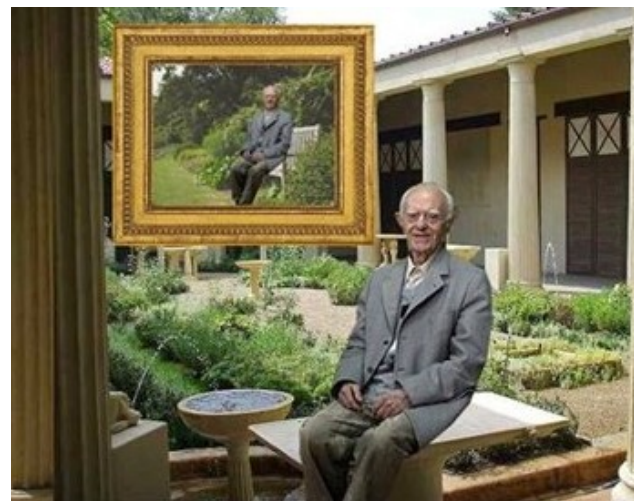
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