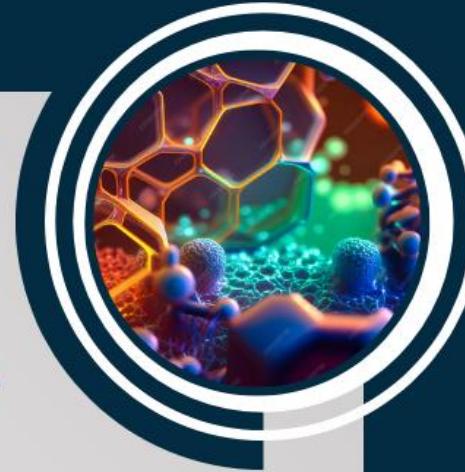




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VI INTERNATIONAL WORKSHOP OF  
THE GRADUATE PROGRAM ON  
PHYSICS ENGINEERING

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## CERTIFICATE

Hereby we certify that the work **Defect-driven band-gap modulation in co/Pd co-doped ZnO ceramics synthesized via solid-state reaction route**, submitted by **Kallyandra Maria Silva de Souza Amorim, Aimée Giovanna Jerônimo de Brito, Pollyana Trigueiro, Ramon Raudel Peña Garcia.** was presented as a Poster Communication by **Kallyandra Maria Silva de Souza Amorim** at the VI International Workshop of the Graduate Program on Physics Engineering at UFRPE, hosted in-person, from November 12th to 13th, 2025.

Cabo de Santo Agostinho – PE, 18<sup>th</sup> of November 2025.



RAFAEL ALVES DE OLIVEIRA  
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