



YEDİTEPE UNIVERSITY

MATHEMATICS DEPARTMENT SEMINARS

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## Representation theorems for nonvariational solutions of the Helmholtz equation

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**Abstract:** We consider a bounded open subset  $\Omega$  of  $\mathbb{R}^n$  of class  $C^{1,\alpha}$  for some  $\alpha \in ]0, 1[$  and we plan to present integral representation theorems for  $\alpha$ -Hölder continuous solutions of the Helmholtz equation in  $\Omega$  and in the exterior of  $\Omega$  that may have an infinite Dirichlet integral around the boundary of  $\Omega$ . Thus for solutions that do not belong to the classical variational setting.

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**Date:** 19 December 2025, Friday

**Time:** 12:30

**Place:** Zoom



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