



$\Delta u + k^2 u = 0$, Helmholtz
 $u = 0$ on ∂D
 u is outgoing
 $u_t = u_i + u_s$
 u_i is the incident wave
 u_s is the scattered wave
Asymptotically $u_s = c$
 $q \rightarrow$ the
& A

MATHEMATICAL SCIENCES AT THE EDGE IN KNOWLEDGE

Targeted for national prominence by NJIT's strategic plan, the Department of Mathematical Sciences has made dramatic progress under the leadership of Daljit Ahluwalia, chair for more than two decades:

- The department was ranked 10th in the nation in a study by Academic Analytics based on faculty scholarly productivity, which includes such factors as books published, journal publications, citations of journal articles, federal-grant dollars awarded, and honors and awards.
- Mathematical Sciences has grown from a service department to a top-ranked program offering the BS in Applied Mathematics and Computational Sciences, the MS in Applied Mathematics and Applied Statistics, and the PhD in Mathematical Sciences. The department's current enrollment includes 114 undergraduate majors and 140 minors in math, as well as 70 students in graduate programs.
- The department today has one of the most active mathematical research programs in the nation with more than \$2 million annually in external support. Faculty researchers have 25 active grants from the National Science Foundation (NSF), as well as grants from the Office of Naval Research (ONR), the Air Force Office of Scientific Research, NASA, and private foundations and companies.



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