

1. Record Nr.	UNINA9910815039003321
Autore	Ikromov Isroil A. <1961->
Titolo	Fourier restriction for hypersurfaces in three dimensions and Newton polyhedra // Isroil A. Ikromov and Detlef Muller
Pubbl/distr/stampa	Princeton : , : Princeton University Press, , [2016]
ISBN	1-4008-8124-2
Descrizione fisica	1 online resource (269 p.)
Collana	Annals of mathematics studies ; ; number 194
Classificazione	SI 830
Disciplina	516.3/52
Soggetti	Hypersurfaces Polyhedra Surfaces, Algebraic Fourier analysis
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Frontmatter -- Contents -- Chapter 1. Introduction -- Chapter 2. Auxiliary Results -- Chapter 3. Reduction to Restriction Estimates near the Principal Root Jet -- Chapter 4. Restriction for Surfaces with Linear Height below 2 -- Chapter 5. Improved Estimates by Means of Airy-Type Analysis -- Chapter 6. The Case When $h_{lin}() \geq 2$ : Preparatory Results -- Chapter 7. How to Go beyond the Case $h_{lin}() \geq 5$ -- Chapter 8. The Remaining Cases Where $m = 2$ and $B = 3$ or $B = 4$ -- Chapter 9. Proofs of Propositions 1.7 and 1.17 -- Bibliography -- Index
Sommario/riassunto	This is the first book to present a complete characterization of Stein-Tomas type Fourier restriction estimates for large classes of smooth hypersurfaces in three dimensions, including all real-analytic hypersurfaces. The range of Lebesgue spaces for which these estimates are valid is described in terms of Newton polyhedra associated to the given surface. Isroil Ikromov and Detlef Müller begin with Elias M. Stein's concept of Fourier restriction and some relations between the decay of the Fourier transform of the surface measure and Stein-Tomas type restriction estimates. Varchenko's ideas relating Fourier decay to associated Newton polyhedra are briefly explained, particularly the concept of adapted coordinates and the notion of height. It turns out

that these classical tools essentially suffice already to treat the case where there exist linear adapted coordinates, and thus Ikromov and Müller concentrate on the remaining case. Here the notion of r-height is introduced, which proves to be the right new concept. They then describe decomposition techniques and related stopping time algorithms that allow to partition the given surface into various pieces, which can eventually be handled by means of oscillatory integral estimates. Different interpolation techniques are presented and used, from complex to more recent real methods by Bak and Seeger. Fourier restriction plays an important role in several fields, in particular in real and harmonic analysis, number theory, and PDEs. This book will interest graduate students and researchers working in such fields.

2. Record Nr.	UNINA9910522953903321
Autore	Favorito Luciano Alves
Titolo	Atlas of Sectional Anatomy : Understanding the Anatomical Aspects of the Thorax, Abdomen and Pelvis // edited by Luciano Alves Favorito, Natasha T. Logsdon
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-030-91688-X
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (103 pages)
Collana	Medicine Series
Disciplina	612.94 611.94
Soggetti	Internal medicine Anatomy Urology Gynecology Proctology Internal Medicine Tòrax Abdomen Pelvis Anatomia humana Atles anatòmics Llibres electrònics
Lingua di pubblicazione	Inglese

Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Sectional Anatomy of the Thorax -- Sectional Anatomy of the Abdomen -- Sectional Anatomy of the Retroperitoneal Space -- Sectional Anatomy of the Male Pelvis -- Sectional Anatomy of the Female Pelvis.
Sommario/riassunto	Sectional anatomy is a valuable resource for understanding and interpreting imaging exams, specially computed tomography (CT) and magnetic resonance imaging (MRI). Thus, health professionals should have a solid anatomical knowledge to properly evaluate such exams during clinical assessments of cardiac, thoracic, abdominal, proctologic, gynecological and urological diseases. The chapters in this book describe the thoracic anatomy, the abdominal wall, retroperitoneal space, and the male and female pelvis. Sectional images of cadaveric material illustrate the thoracic and the abdominal cavities, kidney, ureter, prostate, penis and other male and female organs. The images and descriptions build familiarity with the anatomical traits and can be applied in the fields of urology, gynecology, proctology, radiology and surgery. This work appeals to a wide range of readers, from health professionals to residents and students of different medical specialties.