Cesare Arzelà

Cesare Arzelà (6 March 1847 – 15 March 1912) was an Italian mathematician who taught at the University of Bologna and is recognized for his contributions in the theory of functions, particularly for his characterization of sequences of continuous functions, generalizing the one given earlier by Giulio Ascoli in the Arzelà–Ascoli theorem.

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Life

He was a pupil of the Scuola Normale Superiore of Pisa where he graduated in 1869. Arzelà came from a poor household; therefore he could not start his study until 1871, when he studied in Pisa under Enrico Betti and Ulisse Dini.

He was working in Florence (from 1875) and in 1878 obtained the Chair of Algebra at the University of Palermo.

After that he became a professor in 1880 at the University of Bologna at the department of analysis. He conducted research in the field of theory of functions. His most famous student was Leonida Tonelli.

In 1889 he generalized the Ascoli theorem to Arzelà–Ascoli theorem, an important theorem in the theory of functions.

He was a member of the Accademia Nazionale dei Lincei, and of several other academies.

Works

- Arzelà, Cesare (7 May 1905), "Sulle funzioni di due variabili a variazione limitata (On functions of two variables of bounded variation)" (https://archive.org/stream/rendicont odelle04bologoog#page/n121/mode/2up), *Rendiconto*

Cesare Arzelà	
A relief portraying Cesare Arzelà at the Mathematics Department of Bologna University	
Born	6 March 1847 Santo Stefano di Magra, La Spezia, Italy
Died	12 March 1912 (aged 64) Santo Stefano di Magra, La Spezia, Italy
Nationality	Italian
Alma mater	Scuola Normale Superiore
Known for	Arzelà-Ascoli theorem, contributions to Functional analysis, mathematical analysis
Scientific career	
Fields	Mathematics
Institutions	Scuola Normale Superiore, University of Florence, University of Bologna
Doctoral advisor	Enrico Betti

delle sessioni della Reale Accademia delle scienze dell'Istituto di Bologna, Nuova serie, **IX** (4): 100–107, JFM 36.0491.02 (https://zbmath.org/?format=complete&q=an:36.0491.02), archived from the original (https://archive.org/details/rendicontodelle04bologoog) on 2007-08-07

Doctoral students	Leonida Tonelli

See also

- Total variation

Further reading

- Tricomi, G. F. (1962). "Cesare Arzelà" (http://www.dm.unito.it/sism/m_italiani/biografie/tricomi/arzela.html). *Matematici italiani del primo secolo dello stato unitario (Italian mathematicians of the first century of the unitary state)*. Memorie dell'Accademia delle Scienze di Torino. Classe di Scienze fisiche matematiche e naturali. series IV (in Italian). **I**. p. 120. Zbl 0132.24405 (https://zbmath.org/?format=complete&q=an:0132.24405).. Available from the website of the Società Italiana di Storia delle Matematiche (https://web.archive.org/web/20110111041253/http://www.dm.unito.it/sism/)

External links

- Cesare Arzelà (https://www.genealogy.math.ndsu.nodak.edu/id.php?id=22413) at the Mathematics Genealogy Project