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## **Training Mathematicians from Türkiye and Pakistan to Win the Fields Medals and the Abel Prizes**

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**Abstract** – The *Fields Medal* is one of the most prestigious prizes given to 2, 3 or 4 mathematicians under 40 years of age at the International Congress of IMU<sup>0</sup>, a meeting held every 4 years. The name of the award commemorates the Canadian mathematician **John Charles Fields**<sup>£</sup>. Its purpose is to give recognition and support to younger mathematical researchers, who have made major contributions. From the Muslim community, only **Maryam Mirzakhani**<sup>€</sup> was to receive this honor in 2014, also, the first female ever to be awarded the Fields Medal. According to the annual Academic Excellence Survey by ARWU<sup>¥</sup> the Fields Medal is consistently regarded as the top award in the field of mathematics worldwide, and in another reputation survey conducted by IREG<sup>ß</sup> in 2013–14, the *Fields Medal* came closely after the *Abel Prize* as the second most prestigious international award in mathematics. An international scientific prize in mathematics, the *Abel Prize* is, generally, considered the equivalent of the Nobel Prize in Mathematics, in the memory of **Niels Henrik Abel**<sup>κ</sup>. In order to educate, to motivate and to train potential students, who are good in serial-logical processing (left hemisphere of the brain), beauty of mathematics should be illustrated through programs on mathematics and society, stories of famous mathematicians and their contributions supplemented through movies like, “A Beautiful Mind” and “Theory of Everything”. The motivational programs should start right from the primary school, continue through the high school/the college and converted into a solid training program in the universities, emphasizing on new and innovative branches of mathematics like anthromathematics, astromathematics and condensed-matter mathematics.

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*Keywords* – *Anthromathematics, Astromathematics, Computational Mathematics, Condensed-Matter Mathematics, Mathematics and Society*

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<sup>¥</sup>For 2 full terms of 3-year each (2006-2009; 2012-15)

<sup>0</sup>The International Mathematical Union

<sup>£</sup>May 14, 1863, Hamilton, Canada West – August 9, 1932, Toronto, Ontario, Canada

<sup>€</sup>May 12, 1977, Tehran, Iran – July 14, 2017, Stanford, California, United States

<sup>¥</sup>Academic Ranking of World Universities

<sup>ß</sup>IREG Observatory of Academic Ranking and Excellence

<sup>κ</sup>August 5, 1802, Nedstrand, Denmark-Norway – August 6, 1829, Froland, Norway