Preface to the 16th Takagi Lectures

The Takagi Lectures are expository lectures by the finest contemporary mathematicians.

The Mathematical Society of Japan (MSJ) inaugurated the Takagi Lectures as prestigious research survey lectures. The Takagi Lectures are the first series of the MSJ official lectures in mathematics to be honored with this respected Japanese mathematician's name [2]. The lectures are intended for a wide range of mathematicians, and are as a rule held twice a year. The first Takagi Lectures took place in November 2006 at Research Institute for Mathematical Sciences (RIMS), Kyoto. Since then Takagi Lectures have been delivered by the following distinguished mathematicians: P.F. Baum, Y. Benoist, S. Bloch, J.-P. Bourguignon, S. Brendle, A. Connes, É. Ghys, A. Guionnet, S. Gukov, M. Harris, M. Hopkins, U. Jannsen, V.F.R. Jones, C. Kenig, C. Khare, M. Khovanov, M. Kontsevich, L. Lafforgue, P.-L. Lions, A. Lubotzky, J. Makino, P. Malliavin, C. Manolescu, D. McDuff, J. McKernan, A. Naor, K.-H. Neeb, N.A. Nekrasov, H. Oh, H. Ooguri, S. Popa, P. Scholze, R. Seiringer, S. Smale, G. Tian, A. Venkatesh, A.M. Vershik, C. Villani, O. Viro, D.-V. Voiculescu, C. Voisin, and M. Yor.

The Takagi Lectures bear the name of the principal creator of Class Field Theory, Professor Teiji Takagi (1875–1960). In Japan, he is also known as the founder of the Japanese School of modern mathematics [1,3]. Internationally, he served as one of the first Fields Medal Committee Members in 1936 together with G.D. Birkhoff, É. Cartan, C. Carathéodory, and F. Severi.

The 16th Takagi Lectures are to be held November 28–29, 2015, at The University of Tokyo. The distinguished lecturers are F. Catanese, J.-P. Demailly, M. Kashiwara, and S.-T. Yau. The 16th Takagi Lectures will commemorate the centennial of the birth of Kunihiko Kodaira, one of the greatest mathematicians of the twentieth century.

The lecture notes of the Takagi Lectures are to be published by the *Japanese Journal of Mathematics* (JJM). It is the oldest continuously published mathe-

matical journal in Japan (founded in 1924) and its third series was relaunched in 2006 as a mathematical journal of research survey articles of the highest scientific level in cooperation with Springer. The editors of JJM, Y. Kawahigashi, H. Nakajima, K. Ono, T. Saito, and I, also serve as the organizers of the Takagi Lectures. Videos of the lectures will be available on the Internet.

This scheme of the Takagi Lectures is intended to support the mission of continuing the advancement of mathematics, not only in Japan but throughout the world.

The Takagi Lectures are financially supported by the surplus from the International Congress of Mathematicians, which was held in Kyoto in 1990, with funding provided by the MSJ.

I would like to take this opportunity to thank the distinguished lecturers and all those who have supported our endeavors. I hope that the Takagi Lectures will gain the respect of a worldwide audience and will continue to promote future progress in mathematics.

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Toshiyuki Kobayashi

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and

Kavli IPMU

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Kunihiko Kodaira (1915–1997)

Biography of Kunihiko Kodaira

1915 March 16	Born in Tokyo, Japan
1935	Entered Department of Mathematics, Tokyo Imperial University
1938	Graduated from Department of Mathematics, and entered in Department of Physics
1941	Lecturer of Tokyo Imperial University (Department of Physics)
1949	Doctor of Science at the University of Tokyo (superviser: Shokichi Iyanaga)
1949	Member of the Institute for Advanced Study
1954	Awarded Fields Medal at ICM at Amsterdam
1955	Professor of Princeton University and the Institute for Advanced Study
1957	Decorated with Order of Culture, Japan
1962	Professor of Johns Hopkins University
1965	Professor of Stanford University
1965	Member of Japan Academy
1968	Professor of The University of Tokyo
1975	Professor of Gakushuin University
1978	Corresponding Member of National Academy of Arts and Sciences, USA
1985	Awarded Wolf Prize, Israel
1987	Decorated with First Order of Merit with the Sacred Treasure
1986–90	President of the International Congress of Mathematicians, Kyoto
1997 July 26	Died in Kofu City, Japan

Bibliography

[K] Special Issue of Journal of Mathematical Sciences, The University of Tokyo. In commemoration of Professor Kunihiko Kodaira's centennial birthday March 16, 2015. J. Math. Sci. Univ. Tokyo, **22** (2015), J.-P. Demailly, G. van der Geer, C. Hacon, Y. Kawamata, T. Kobayashi, Y. Miyaoka and W. Schmid (eds.).

Teiji Takagi (1875–1960)

Biography of Teiji Takagi

1875 April 21	Born in Gifu, Japan
1894	Entered the Department of Mathematics, Imperial University
1897	Entered the Graduate School of Tokyo Imperial University
1898–1901	Studied in Berlin and Göttingen
1903	Received the degree of Doctor of Science, Tokyo Imperial University
1904	Appointed Professor at Tokyo Imperial University
1920	Published his main paper on the class field theory
1925	Elected Member of the Imperial Academy of Japan
1936	Served on the 1st Fields Medal Committee
1938	Published the book *A Course on Analysis* (in Japanese)
1940	Received Culture Medal
1960 February 28	Died in Tokyo, Japan

Decorated posthumously with the Order of the Rising Sun of the First Grade

Bibliography

[1] S. Iyanaga, Chronological synopsis of the life of Teiji Takagi. In: Teiji Takagi Collected Papers, Second Enlarged Edition, Springer-Verlag Tokyo, 1990.

[2] T. Kobayashi, On the establishment of the Takagi Lectures. Japan. J. Math., **2** (2007), 145–148.

[3] K. Miyake, Teiji Takagi, Founder of the Japanese School of Modern Mathematics. Japan. J. Math., **2** (2007), 151–164.