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December 20, 2021 (Print)

Pui Ching Middle School Clinches Gold Award and Silver Award at the 2021 Hang Lung Mathematics Awards

Tsz Hin Chan from Pui Ching Middle School received the Gold Award for his research report titled "On Non-Torsion Solutions of Homogeneous Linear Systems over Rings" at the 2021 Hang Lung Mathematics Awards.
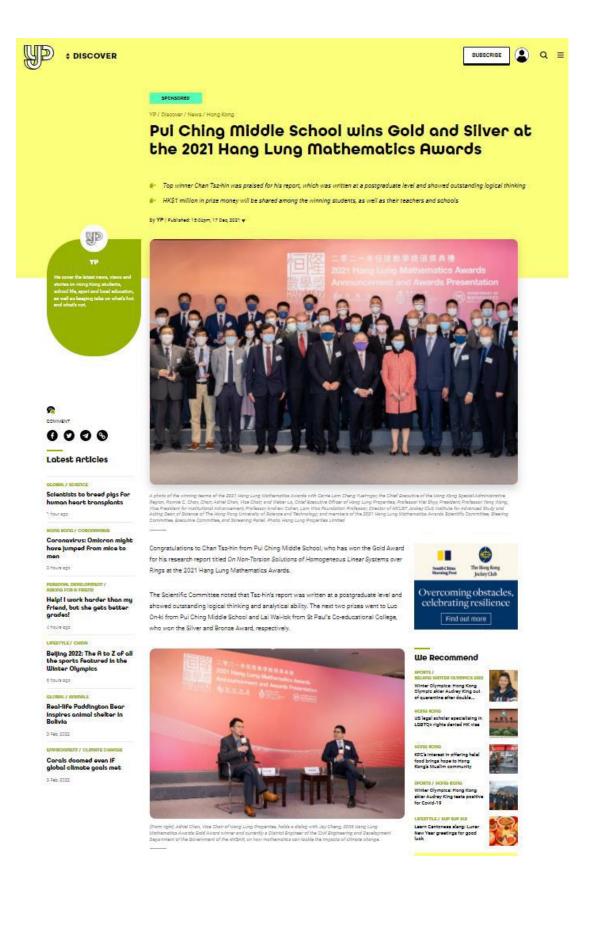
The Scientific Committee noted that Tsz Hin's research report was at postgraduate level and demonstrated outstanding logical thinking and analytical ability. On Ki Luo from Pui Ching Middle School and Wai Lok Lai from St. Paul's Co-educational College won the Silver Award and the Bronze Award, respectively. Together with the five

Honorable Mentions of equal ranking, HK$1 million in prize money will be shared among winning students, and their teachers and schools, in recognition of their mathematics research projects that meet the highest academic standards in terms of methodology, research, and scholarship.

The Announcement and Awards Presentation of the 2021 Hang Lung Mathematics Awards, co-organised by Hang Lung Properties Limited and The Hong Kong University of Science and Technology, was held on December 15,

2021. The Hon. Mrs. Carrie Lam Cheng Yuet-ngor, The Chief Executive of the Hong Kong Special Administrative Region and a longtime supporter of the Hang Lung Mathematics Awards for many years, attended as the Guest of Honor.

This year's competition attracted the participation of over 60 teams from nearly 40 secondary schools in Hong Kong. The Awards is a biennial event, encouraging secondary school students to fulfil their creative potential in mathematics and science through research.

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Pui Ching Middle School wins Gold and Silver at the 2021 Hang Lung Mathematics Awards

- Top winner Chan Tsz-hin was praised for his report, which was written at a postgraduate level and showed outstanding logical thinking

- HK$1 million in prize money will be shared among the winning students, as well as their teachers and schools

by YP | Published: 15:06pm, 17 Dec, 2021 ▾

YP

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A photo of the winning teams of the 2021 Hang Lung Mathematics Awards with Carrie Lam Cheng Yuet-ngor, the Chief Executive of the Hong Kong Special Administrative Region; Ronnie C. Chan, Chair; Adriel Chan, Vice Chair; and Weber Lo, Chief Executive Officer of Hang Lung Properties; Professor Wei Shyy, President; Professor Yang Wang, Vice President for Institutional Advancement; Professor Andrew Cohen, Lam Woo Foundation Professor; Director of HKUST Jockey Club Institute for Advanced Study and Acting Dean of Science of The Hong Kong University of Science and Technology; and members of the 2021 Hang Lung Mathematics Awards Scientific Committee, Steering Committee, Executive Committee, and Screening Panel. Photo: Hang Lung Properties Limited

Congratulations to Chan Tsz-hin from Pui Ching Middle School, who has won the Gold Award for his research report titled *On Non-Torsion Solutions of Homogeneous Linear Systems over Rings* at the 2021 Hang Lung Mathematics Awards.

The Scientific Committee noted that Tsz-hin's report was written at a postgraduate level and showed outstanding logical thinking and analytical ability. The next two prizes went to Luo On-ki from Pui Ching Middle School and Lai Wai-lok from St Paul's Co-educational College, who won the Silver and Bronze Award, respectively.

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(From right) Adriel Chan, Vice Chair of Hang Lung Properties, holds a dialog with Jay Cheng, 2008 Hang Lung Mathematics Awards Gold Award winner and currently a District Engineer of the Civil Engineering and Development Department of the Government of the HKSAR, on how mathematics can tackle the impacts of climate change.

Together with the five Honourable Mentions of equal ranking, HK$1 million in prize money will be shared among the winning students, and their teachers and schools, in recognition of their mathematics research projects, which meet the highest academic standards in terms of methodology, research, and scholarship.

Carrie Lam Cheng Yuet-ngor, the Chief Executive of Hong Kong and a long-time supporter of the Hang Lung Mathematics Awards, attended as the guest of honour. The awards were co-organised by Hang Lung Properties Limited and The Hong Kong University of Science and Technology.

More than 60 teams from around 40 secondary schools in Hong Kong took part in this year's awards, which is a biennial event encouraging secondary school students to fulfil their creative potential in mathematics and science. Congratulations to all the winners, and a round of thanks to everyone who took part!

Carrie Lam Cheng Yuet-ngor, the Chief Executive of the Hong Kong Special Administrative Region, presents the 2021 Hang Lung Mathematics Awards Gold Award to Principal Ho Lik-ko (third right) and Teacher Lee Ho-fung (second right) of Pui Ching Middle School, and the Gold Award winner Chan Tsz-hin, attends the ceremony online and shares his thoughts on winning.

List of Winners of the 2021 Hang Lung Mathematics Awards

Gold
On Non-Torsion Solutions of Homogeneous Linear Systems over Rings
Chan Tsz-hin
Teacher: Lee Ho-fung
School: Pui Ching Middle School

Silver
The Johnson-Leader-Russell Question on Square Posets
Luo On-ki
Teacher: Lee Ho-fung
School: Pui Ching Middle School

Bronze
Solvability of the General Pell's Equation, Quadratic Residuosity, and Real Quadratic Fields of Class Number Two
Lai Wai-lok
Teacher: Cheung Pak-leong
School: St Paul's Co-educational College

Honourable Mentions

An Investigation on the Rings of Integer-Valued Polynomials on Gaussian Integers and Integer-Valued Continuous Functions
Myron Lam
Teacher: Chan Long-tin
School: Diocesan Boys' School

On the Basel Problem: Generalizations to Other Power Series
Chui Tsz-fung
Teacher: Chan Long-tin
School: Diocesan Boys' School

On the Variations of the Brachistochrone Curve
Nick Cheng Hang
Shum Hei-chai
Tong Chun-shing
Teacher: Chan Long-tin
School: Diocesan Boys' School

On the Generalization of the Triangle Peg Problem to Higher Dimensions
Mok Chun-hei
Wei Chi-kong
To Wang-kin
Teacher: Cho Ka-on
School: SKH Tsang Shiu Tim Secondary School

Investigation on the Buffon-Laplace Needle Problem
Cheung Hui-yat
Fong Pak-kiu
Lee Shing-him
Justin Leung Ka-chai
Ting Siu-lam
Teacher: Chu Wai-man
School: Wah Yan College, Kowloon