

DEPARTMENT OF MATHEMATICS

A special lecture on “Isometric Path Partition Problem”


7.12.2021

❖ INVITATION

St. Mary's College (Autonomous)
(Re-accredited with 'A+' Grade by NAAC)
Thoothukudi-628 001, Tamil Nadu

St. Mary's Mathematics Research Forum
organises

A Special Lecture
ON
Isometric Path Partition Problem

Resource person

Dr. R. Prabha
Head & Assistant Professor
Department of Mathematics,
Ethiraj College for Women,
Chennai

Best Wishes from
Rev. Sr. Flora Mary
Secretary
Rev. Dr. Sr. A. S. J. Lucia Rose
Principal
Rev. Sr. Josephine Jeyarani
Director of SSC

Date: 07.12.2021
Time: 6:00 P.M.

[Click here](#)
Meeting ID:
89725449494
Passcode: mathsa/smc

❖ SCREENSHOTS

SIX TYPES OF COVERING / PARTITIONING PROBLEMS

Covering Partition Problem
(Torus version)

Covering T to path types

Partitioning T to path types

Path cover problem (P_n)

Isolated path cover problem (IP_n)

Isometric path cover problem (IP_n)

Path partitioning problem (PP_n)

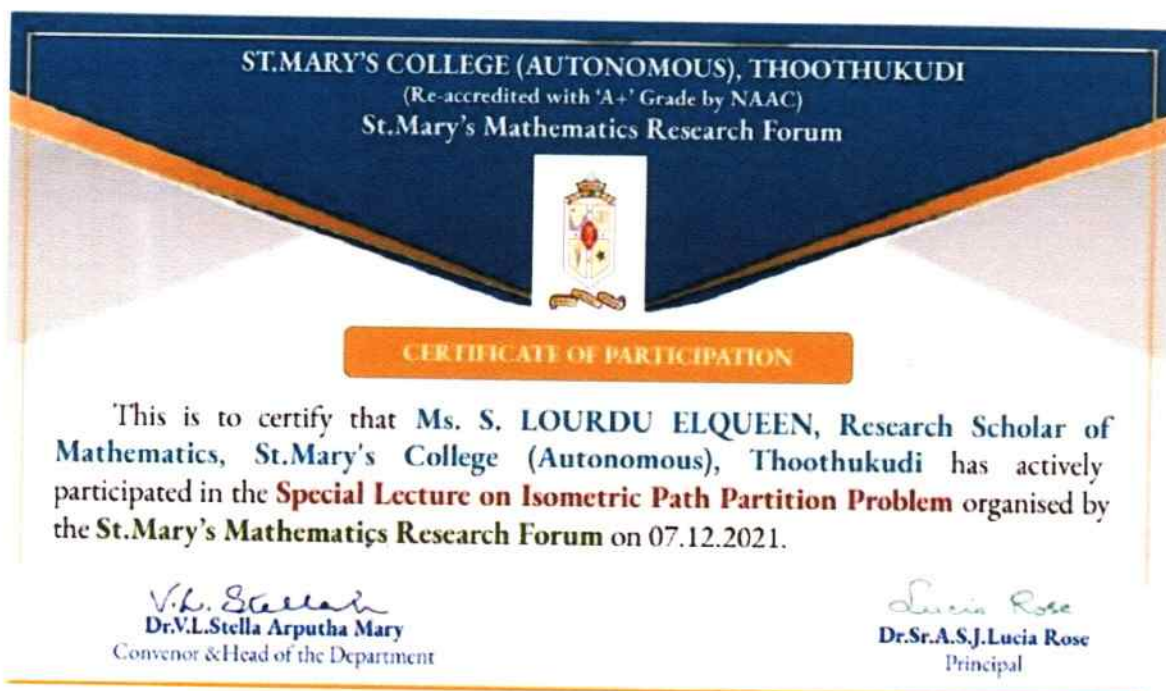
Isolated path partitioning problem (IPP_n)

Isometric path partitioning problem $(IIPP_n)$

Theorem 4[24]: The isometric path cover (partition) number of the $(r \times r)$ -dimensional torus is r , when r is even, and is either r or $r+1$, when r is odd.

An (8×8) -dimensional torus.

❖ **CERTIFICATE**



❖ **REPORT**

St.Mary's Mathematics Research Forum of Department of Mathematics organised a special lecture on "Isometric Path Partition Problem" on 7th December 2021. Dr.R. Prabha, Head and Assistant Professor, Department of Mathematics, Ethiraj College for Women, Chennai addressed the gathering. She discussed Isometric Path Partition Number using Peterson graph, Lower Bound of Isometric Path Cover/ Partition Problem, Complexity, etc., She also explained six types of Covering/ partitioning problems. 168 participants were benefitted.

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Head of the Department

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