

# SCHEDULE OF STUDENT & JOINT TALKS



## MREC<sup>3</sup>: Math Research Experiences in Community Colleges Conference

Saturday March 18<sup>th</sup>

To presenters: Please strictly limit your talk to no more than 15 minutes. An additional 5 minutes will be allotted for discussion and questions.

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|-------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 2-2:15pm    | <b>SESSION I</b>                                                                                                                                                                          |
| Room LO1328 | <i>Optimal Gambling Strategies in Roulette</i><br>Edward Ezike and Christian Villatoro (students)<br>(L.A. Pierce College)                                                                |
| Room LO1326 | <i>Fractal Cosmology</i><br>Emily Davis (student)<br>(Bakersfield College)                                                                                                                |
| Room LO1325 | <i>Fermat's Last Theorem: A 300-Year Old Conjecture Now Proven</i><br>Saba Daloub and Lauren Nguyen (students)<br>(Fullerton College)                                                     |
| Room LO1317 | <i>The N<sup>th</sup> Derivative of a Product</i><br>Thao Tran (student)<br>(Chaffey College)                                                                                             |
| 2:15-2:25pm | BREAK                                                                                                                                                                                     |
| 2:25-2:40pm | <b>SESSION II</b>                                                                                                                                                                         |
| Room LO1328 | <i>On a Modification of the Collatz Problem</i><br>Miguel Quime and Michelle Orozco (students)<br>L.A. Mission College                                                                    |
| Room LO1326 | <i>The ABC Conjecture</i><br>Bryan Kim (student)<br>(Fullerton College)                                                                                                                   |
| Room LO1325 | <i>Statistical Dunkirk</i><br>Patrick Chao and Brandon Beierle (students)<br>(Bakersfield College)                                                                                        |
| Room LO1317 | <i>Fractal Hausdorff Dimensions</i><br>Adam Allred (student)<br>(Fullerton College)                                                                                                       |
| 2:40-2:50pm | Break                                                                                                                                                                                     |
| 2:50-3:05pm | <b>SESSION III</b>                                                                                                                                                                        |
| Room LO1328 | <i>An Investigation of Card Shuffling</i><br>Masoumeh Nadimi and Lana Kazma (students)<br>(L.A. Pierce College)                                                                           |
| Room LO1326 | <i>Zelmanov's question of whether an associative algebra having a non-zero derivation composed with itself being local, is abelian</i><br>Vanessa Peterman (student)<br>Fullerton College |

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| Room LO1325 | <i>The Mechanical Integrator</i><br>Fardokht Namiranian (student)<br>(L.A. Pierce College)                                             |
| Room LO1317 | <i>The Circle-Packing Problem for Equilateral Triangles</i><br>Kunjin Choi (student)<br>Fullerton College                              |
| 3:05-3:15pm | Break                                                                                                                                  |
| 3:15-3:30pm | <b>SESSION IV</b>                                                                                                                      |
| Room LO1328 | No talk in this room at this time                                                                                                      |
| Room LO1326 | <i>String-Theoretic Modeling of Gravity Waves in 9+1 Dimensions: Fuzzball</i><br>Coleman Dobson (faculty)<br>(Antelope Valley College) |
| Room LO1325 | <i>How to Double Your Money</i><br>Christian Villatoro (student)<br>(L.A. Pierce College)                                              |
| Room LO1317 | <i>The Continuum Hypothesis</i><br>Tina Cao (student)<br>(Fullerton College)                                                           |
| 3:30-3:40pm | Break                                                                                                                                  |
| 3:40-3:55pm | <b>SESSION V</b>                                                                                                                       |
| Room LO1328 | No talk in this room at this time                                                                                                      |
| Room LO1326 | <i>Toeplitz' Conjecture: The Inscribed Square Problem for Jordan Curves</i><br>Jack Medford (student)<br>Fullerton College             |
| Room LO1325 | <i>Numerical Solution of Perturbation Problems</i><br>Xin Cai (faculty)<br>(Moorpark College)                                          |
| Room LO1317 | <i>How Did We Get Here? Incredible Math Connections to Real Life</i><br>Shuba Simhan (faculty)<br>Glendale Community College           |
| 3:55-4:05pm | Break                                                                                                                                  |
| 4:05-4:20pm | <b>SESSION VI</b>                                                                                                                      |
| Room LO1328 | No talk on this room at this time                                                                                                      |
| Room LO1326 | <i>The Fake Torus: Homology Knows Not What the N-Cell Does</i><br>James Francese (student)<br>(Fullerton College)                      |
| Room LO1325 | <i>Pascal's Triangle in <math>Z_n</math></i><br>Tuyet Phan-Yamada (faculty)<br>California State University, Los Angeles                |
| Room LO1317 | <i>Joy and Mysteries of 3-Dimensional Topology</i><br>Sab Matsumoto (faculty)<br>(College of the Canyons)                              |