



*18th International Workshop  
on Real and Complex Singularities*

VNIVERSITAT DE VALÈNCIA

Facultat de Ciències Matemàtiques

*Departament de Matemàtiques  
Av. Dr Moliner, 50  
46100 Burjassot ( València)  
Teléfono 96 354 45 71- Fax 96 354 39 18*

To whom it may concern,

On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Abraham del Valle Rodríguez** gave the talk entitled "**On strong Euler-homogeneity for free divisors**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
Dr. Moliner, 50, 46100, Burjassot, València  
Tlf : +34 96 354 30 36  
Email : [juan.moya@uv.es](mailto:juan.moya@uv.es)



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To whom it may concern,

On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Ana Claudia Nabarro** gave the talk entitled "**About the local geometry of hipersurfaces, in  $R^4$ , with boundary**".

Sincerely,

A handwritten signature in black ink, appearing to read "J. A. Moya Pérez".

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
Dr. Moliner, 50, 46100, Burjassot, València  
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To whom it may concern,

On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **András Némethi** gave the talk entitled "**Lattice cohomology of curve singularities**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
Dr. Moliner, 50, 46100, Burjassot, València  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Antoni Rangachev** gave the talk entitled "**The complete intersection discrepancy of a curve**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Benjamin Bode** gave the talk entitled "**Links of singularities of non-degenerate mixed polynomials**".

Sincerely,

Juan Antonio Moya Pérez  
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Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Christian Muñoz-Cabello** gave the talk entitled "**A Mond-type conjecture for frontal map germs**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Cinzia Villa** gave the talk entitled "**The Cohen-Macaulay property of double and triple point spaces**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Daniel Dreibelbis** gave the talk entitled "**Lines of curvature and umbilics for surfaces obtained by deformations of real Milnor links**".

Sincerely,

Juan Antonio Moya Pérez  
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Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Davi Lopes Medeiros** gave the talk entitled "**Moderately Discontinuous Homology of Real and Complex Set Germs**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Eder Leandro Sanchez Quiceno** gave the talk entitled "**Newton Non-degeneracies of Mixed Polynomials**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **El Hilany Boulos** gave the talk entitled "**The polyhedral type of a complex polynomial map on the plane**".

Sincerely,

Juan Antonio Moya Pérez  
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Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Enrico Savi** gave the talk entitled "**The Q-algebraicity problem in real algebraic geometry**".

Sincerely,

Juan Antonio Moya Pérez  
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Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Euripedes Silva** gave the talk entitled "**On the Moser's Bernstein Theorem**".

Sincerely,

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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Fawaz Alharbi** gave the talk entitled "**Height functions on a cuspidal edge with a distinguished singular curve**".

Sincerely,

Juan Antonio Moya Pérez  
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Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Gergö Pintér** gave the talk entitled "**Equivariant contact equivalence applied in condensed matter physics**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Helge Møller Pedersen** gave the talk entitled "**Images of maps form  $(C^2,0)$  to  $(C^n,0)$** ".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Hiroshi Teramoto** gave the talk entitled "**Algebraic Local Cohomology for Mixed Module and Its Application to Singularity Theory**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Ignacio Brea Ribes** gave the talk entitled "**Augmentations for tackling conjectures of map-germs with one-parameter stable unfolding**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Inácio Rabelo** gave the talk entitled "**Lipschitz and Contact Geometries of Mixed Varieties**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Ingrid Sofia Meza Sarmiento** gave the talk entitled "**Global topological classification of quadratic-like foliations on the plane**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Jean-Paul Brasselet** gave the talk entitled "**Poincaré-Hopf à la mode Lipschitz**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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Sincerely,

Juan Antonio Moya Pérez  
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Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Juan Viu-Sos** gave the talk entitled "**A combinatorial approach to moduli spaces of line arrangements**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
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Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
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Dr. Moliner, 50, 46100, Burjassot, València  
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Email : [juan.moya@uv.es](mailto:juan.moya@uv.es)



*18th International Workshop  
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*Departament de Matemàtiques  
Av. Dr Moliner, 50  
46100 Burjassot ( València)  
Teléfono 96 354 45 71- Fax 96 354 39 18*

To whom it may concern,

On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Luis Renato Gonçalves Dias** gave the talk entitled "**A Thom Isotopy Theorem for nonproper semialgebraic maps**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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To whom it may concern,

On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Maria Elenice Rodrigues Hernandes** gave the talk entitled "**A class of non-normal toric surfaces in  $C^4$  with isolated singularity**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Masatomo Takahashi** gave the talk entitled "**On generalised framed surfaces in the Euclidean 3-space**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Meirav Amram** gave the talk entitled "**Classification of algebraic surfaces and curves via deformations and special singularities**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Michał Zwierzynski** gave the talk entitled "**Indefinite Improper Affine Spheres and Their Singularities**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Murilo Zigart** gave the talk entitled "**Constructing Gutierrez-Sotomayor flows: a few examples**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Nicolas Dutertre** gave the talk entitled "**Topology of functions with non-isolated stratified critical points**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Nozomi Nakatsuyama** gave the talk entitled "**On vertices of frontals in the Euclidean plane**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Osamu Saeki** gave the talk entitled "**Simplifying generic smooth maps to the 2-sphere and to the plane**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Otoniel Nogueira da Silva** gave the talk entitled "**On Zariski multiplicity conjecture for quasihomogeneous surfaces with non-isolated singularities**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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To whom it may concern,

On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Patricio Almirón** gave the talk entitled "**The miniversal deformation of some complete intersection monomial curves**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Piotr Mormul** gave the talk entitled "**Special 2-flags: classification in length 5 is finite**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Regilene Oliveira** gave the talk entitled "**Bifurcation of Limit Cycles in Piecewise Quadratic Kolmogorov systems**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Rodrigo Mendes Pereira** gave the talk entitled "**Equivalence on (finite) map germs  $(\mathbb{R}^n, 0) \rightarrow \mathbb{R}^n$ : Finiteness results and invariants between  $[C^\infty\text{-}A, Lip\text{-}A]$  orbits**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
Dr. Moliner, 50, 46100, Burjassot, València  
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To whom it may concern,

On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Runa Shimada** gave the talk entitled "**Geometry on deformations of  $S_1$  singularities**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
Dr. Moliner, 50, 46100, Burjassot, València  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Ryosuke Ota** gave the talk entitled "**On the Classification of Doodles by Concordance**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
Dr. Moliner, 50, 46100, Burjassot, València  
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To whom it may concern,

On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Takahiro Yamamoto** gave the talk entitled "**Fiber singularities of continuous maps**".

Sincerely,

A handwritten signature in black ink, appearing to read "J. A. Moya Pérez".

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
Dr. Moliner, 50, 46100, Burjassot, València  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Takashi Nishimura** gave the talk entitled "**Straight line families in the plane and their envelopes**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Timo Essig** gave the talk entitled "**Poincaré completions and singular spaces**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Wojciech Domitrz** gave the talk entitled "**Singularities of the Gauss map components of a surface in  $\mathbb{R}^4$  and contact with holomorphic curves**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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On behalf of the Organizing Committee of the "18th International Workshop on Real and Complex Singularities" which was held in València, Spain from the 21st to the 26th of July of 2024, this is to certify that **Yanlin Li** gave the talk entitled "**Singularities and geometric topology of evolving flat frontal surfaces**".

Sincerely,

Juan Antonio Moya Pérez  
Organizing Committee  
Dept. Matemàtiques, Facultat de Matemàtiques, Universitat de València,  
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