

Removable and non-removable singularities in parabolic equations

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For parabolic partial differential equations, there may exist solutions with singularities that may move in time. In this talk we give a sufficient condition for the removability of moving singularities. We also show some examples of solutions with non-removable singularities.

References

- [1] *S. Sato, E. Yanagida*: Solutions with moving singularities for a semilinear parabolic equation. *J. Differ. Equations* *246* (2009), 724–748.
- [2] *J. Takahashi, E. Yanagida*: Removable and non-removable singularities in the heat equation, preprint.