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On the axisymmetric backward heat equation with non-zero right hand side: Regularization and error estimates

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**Highlights**

- An axisymmetric backward heat equation with non-zero right hand side is introduced.
- Using the modified quasi-boundary value to regularize the nonlinear problem and to get some error estimates.
- Provides a numerical examples to illustrate the efficiency of our method for both deterministic and random error cases.

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