

Local Abundance of Ultra-Massive Black Holes.

Nadav Joseph Outmezguine ^{1,2,3} Fabio Pacucci ^{4,5} and Abraham Loeb ^{4,5}

¹*Raymond and Beverly Sackler School of Physics and Astronomy, Tel-Aviv University, Tel-Aviv 69978, Israel*

²*Berkeley Center for Theoretical Physics, Department of Physics, University of California, Berkeley, CA 94720, U.S.A.*

³*Theoretical Physics Group, Lawrence Berkeley National Laboratory, Berkeley, CA 94720, U.S.A*

⁴*Center for Astrophysics | Harvard & Smithsonian, Cambridge, MA 02138, USA*

⁵*Black Hole Initiative, Harvard University, Cambridge, MA 02138, USA*

ABSTRACT

Local statistics of huge black holes etc.

INTRODUCTION

METHOD

The SDSS provides us with measurements of quasars mass and position, while we are interested in determining the local abundance of BHs. To map the density of quasars into that of BH we make use

RESULTS

DISCUSSION

ACKNOWLEDGEMENTS

REFERENCES

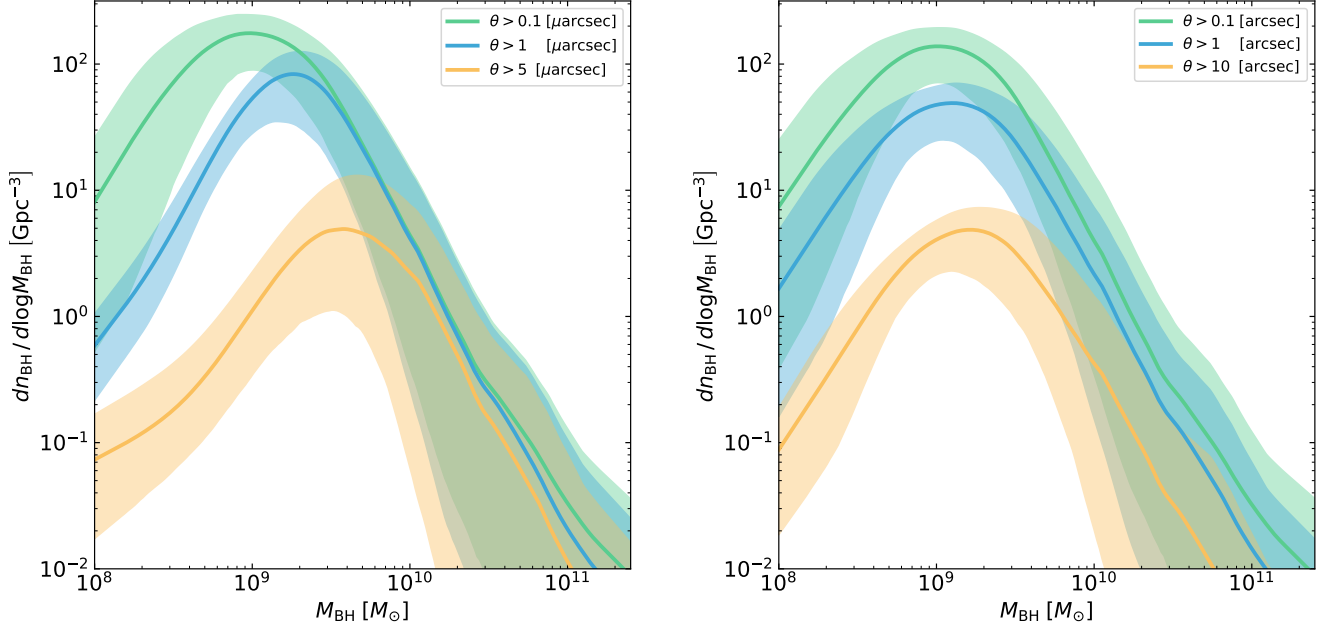


Figure 1. BH mass function

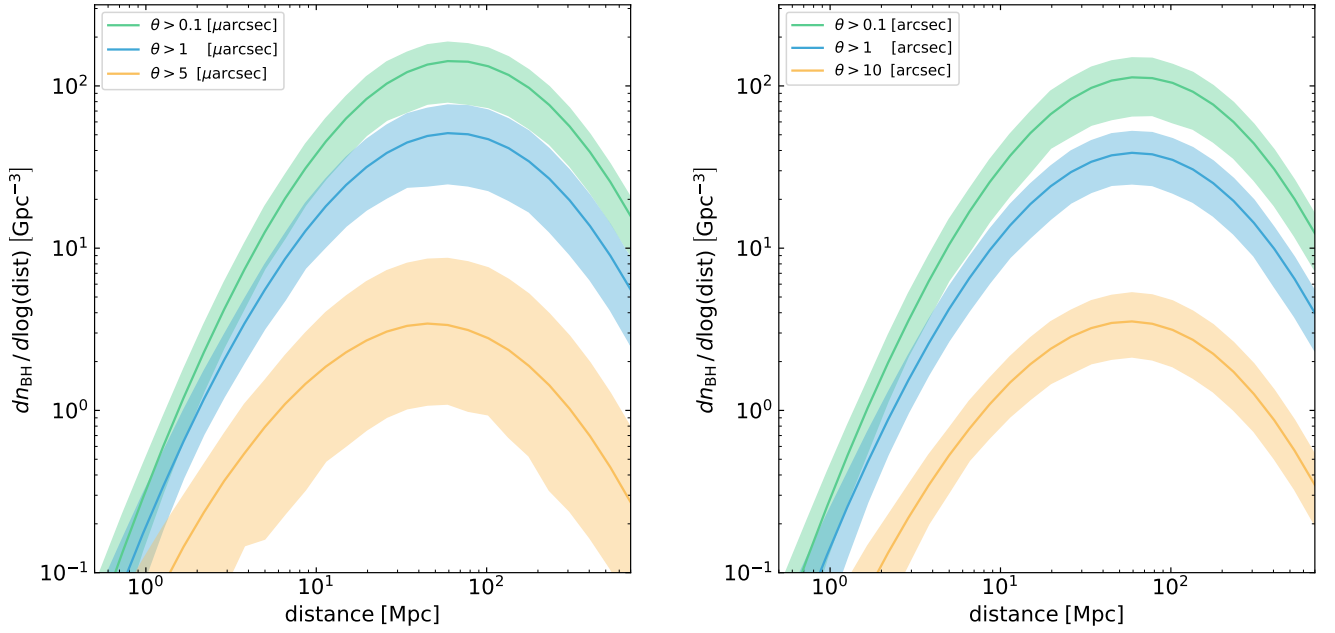


Figure 2. BH distance function

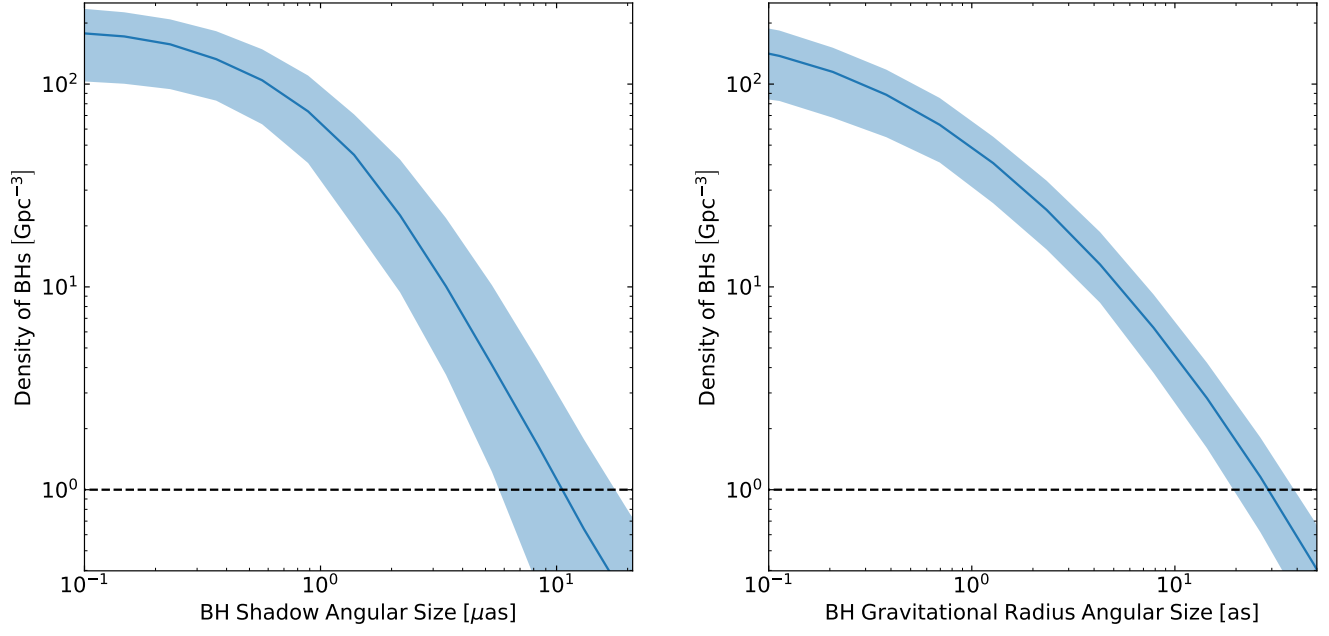


Figure 3. Predicted number of BHs as a function of resolution