Refereed Publications

MICHAEL BOYLAN-KOLCHIN

172. *Testing the Near-Far Connection with FIRE Simulations: Inferring the Stellar Mass Function of the Proto-Local Group at $z > 6$ Using the Fossil Record of Present-day Galaxies*
P. Gandhi, A. Wetzel, **M. Boylan-Kolchin**, R. Sanderson, A. Savino, D. Weisz, E. Tollerud, G. Sun, C. Faucher-Giguère (2023), submitted to MNRAS (arXiv:2309.09940)

171. *The JWST Resolved Stellar Populations Early Release Science Program IV: The Star Formation History of the Local Group Galaxy WLM*
K. McQuinn and 25 co-authors, including **M. Boylan-Kolchin** (2023), submitted to AAS Journals

170. *Hooks & Bends in the Radial Acceleration Relation: Tests for Dark Matter and Challenges for MOND*
F. Mercado, J. Bullock, J. Moreno, **M. Boylan-Kolchin**, A. Wetzel, C. Faucher-Giguère, J. Samuel (2023), submitted to MNRAS; arXiv:2307.09507

169. *Dissipative Dark Matter on FIRE: II. Observational Signatures and Constraints from Local Dwarf Galaxies*
X. Shen, P. Hopkins, L. Necib, F. Jiang, **M. Boylan-Kolchin**, A. Wetzel (2023), submitted to ApJ; arXiv:2206.05327

168. *An Analytic Surface Density Profile for ΛCDM Haloes and Gravitational Lensing Studies*
A. Lazar, J. Bullock, A. Nierenberg, L. Moustakas, **M. Boylan-Kolchin** (2023), submitted to MNRAS; arXiv:2304.11177

167. *Metallicity Distribution Functions of 13 Ultra-Faint Dwarf Galaxy Candidates from Hubble Space Telescope Narrowband Imaging*
S. Fu, D. Weisz, E. Starkenburg, N. Martin, A. Savino, **M. Boylan-Kolchin**, P. Côté, A. Dolphin, A. Ji, N. Longeard, M. Mateo, E. Patel, N, Sandford (2023), accepted by ApJ; arXiv:2306.06260

166. *Orientations of Dark Matter Halos in CDM and SIDM Latte Galaxies*
J. Baptista, R. Sanderson, D. Huber, A. Wetzel, O. Sameie, **M. Boylan-Kolchin**, J. Bailin, P. Hopkins, C. Faucher-Giguère, S. Chakrabarti, D. Vargya, N. Panithanpaisal, A. Arora, E. Cunningham (2023), ApJ, **958**, 44

165. *The Hubble Space Telescope Survey of M31 Satellite Galaxies II. The Star Formation Histories of Ultra-Faint Dwarf Galaxies*
A. Savino and 38 co-authors, including **M. Boylan-Kolchin** (2023), ApJ, **956**, 86

164. *A Jolt to the System: Impulsive Ram Pressure on Low-Mass Local Group Galaxies in Simulations*
J. Samuel, B. Pardasani, A. Wetel, I. Santistevan, **M. Boylan-Kolchin**, J. Moreno, C. Faucher-Giguère (2023), MNRAS, **525**, 3849

163. *The Impact of UV Variability on the Abundance of Bright Galaxies at $z \geq 9$*
X. Shen, M. Vogelsberger, **M. Boylan-Kolchin**, S. Tacchella, R. Kannan (2023), MNRAS, **525**, 3254

162. *What Causes The Formation of Disks and End of Bursty Star Formation?*
P. Hopkins, A. Gurvich, X. Shen, Z. Hafen, M. Grudić, S. Kurinchi-Vendhan, C. Hayward, F, Jiang, M. Orr, A. Wetzel, D. Kereš, J. Stern, C. Faucher-Giguère, J. Bullock, C. Wheeler, K. El-Badry, S. Loebman, J. Moreno, **M. Boylan-Kolchin**, E. Quataert (2022), MNRAS, **525**, 2241

161. *The JWST Resolved Stellar Populations Early Release Science Program II. Survey Overview*
D. Weisz and 41 coauthors, including **M. Boylan-Kolchin** (2023), ApJS, **268**, 15

160. *Born This way: Thin disc, Thick Disc, and Isotropic Bulge Formation in FIRE-2 Milky-Way-mass Galaxy Simulations*

S. Yu, J. Bullock, A. Gurvich, Z. Hafen, J. Stern, **M. Boylan-Kolchin**, C. Faucher-Giguère, A. Wetzel, P. Hopkins, J. Moreno (2023), MNRAS, **523**, 6220

159. *The Absolute Age of M92*
J. Ying, B. Chaboyer, E. Boudreaux, C. Slaughter, **M. Boylan-Kolchin**, D. Weisz (2023), AJ, **166**, 18

158. *Dwarf Galaxy Formation With and Without Dark Matter-Baryon Streaming Velocities*
A. Schauer, **M. Boylan-Kolchin**, K. Colston, O. Sameie, V. Bromm, J. Bullock, A. Wetzel (2023), ApJ, **950**, 20

157. *Formation of Proto-Globular Cluster Candidates in Cosmological Simulations of Dwarf Galaxies at* $z > 4$
O. Sameie, **M. Boylan-Kolchin**, P. Hopkins, A.Wetzel, X. Ma, J. Bullock, K. El-Badry, E. Quataert, J. Samuel, A. Schauer, D. Weisz (2023), MNRAS, **522**, 1800

156. *Stress Testing* Λ*CDM with High-redshift Galaxy Candidates*
M. Boylan-Kolchin (2023), Nature Astronomy, https://doi.org/10.1038/s41550-023-01937-7

155. *Cosmological Structure Formation and Soliton Phase Transition in Fuzzy Dark Matter with Axion Self-Interactions*
P. Mocz, A. Fialkov, M. Vogelsberger, **M. Boylan-Kolchin**, P. Chavanis, M. Amin, S. Bose, T. Dome, L. Hernquist, L. Lancaster, M. Notis, C. Painter, V. Robles, J. Zavala (2023), arXiv:2301.10266 (MNRAS, **521**, 2608)

154. *Public Data Release of the FIRE-2 Cosmological Zoom-in Simulations of Galaxy Formation* A. Wetzel, C. Hayward, R. Sanderson, X. Ma, D. Anglés-Alcázar, R. Feldmann, T. Chan, K. El-Badry, C. Wheeler, S. Garrison-Kimmel, F. Nikakhtar, N. Panithanpaisal, A. Arora, A. Gurvic, J. Samuel, O. Sameie, V. Pandya, C. Hummels, S. Loebman, **M. Boylan-Kolchin**, J. Bullock, C. Faucher-Giguère, D. Kereš, E. Quataert, P. Hopkins (2023), ApJS, **265**, 44

153. *HETDEX Public Source Catalog 1: 280K Sources including over 50K Lyman Alpha Emitters From an Untargeted Wide-area Spectroscopic Survey*
E. Mentuch Cooper and 43 coauthors, including **M. Boylan-Kolchin** (2023), ApJ, **943**, 177

152. *On the Cosmic Web Elongation in Fuzzy Dark Matter Cosmologies: Effects on Density Profiles, Shapes and Alignments of Halos*
T. Dome, A. Fialkov, P. Mocz, B. Schäfer, **M. Boylan-Kolchin**, M. Vogelsberger (2023), MNRAS, **519**, 4183

151. *FIRE-3: Updated Stellar Evolution Models, Yields, & Microphysics and Fitting Functions for Applications in Galaxy Simulations*
P. Hopkins, A. Wetzel, C. Wheeler, R. Sanderson, M. Grudić, O. Sameie, **M. Boylan-Kolchin**, M. Orr, X. Ma, C. Faucher-Giguère, D. Kereš, E. Quataert, K. Su, J. Moreno, R. Feldmann, J. Bullock, S. Loebmann, D. Anglés-Alcázar, J. Stern, L. Necib, C. Hayward (2023), MNRAS; MNRAS, **519**, 3154

150. *Great Balls of FIRE – I: The Formation of Star Clusters Across Cosmic Time in a Milky Way-mass Galaxy*
M. Grudić, Z. Hafen, C. Rodriguez, D. Guszejnov, A. Lamberts, A. Wetzel, **M. Boylan-Kolchin**, C. Faucher-Giguère (2023), MNRAS, **519**, 1366

149. *The Hubble Space Telescope Survey of M31 Satellite Galaxies I. RR Lyrae-based Distances and Refined 3D Geometric Structure*
A. Savino & 20 co-authors, including **M. Boylan-Kolchin** (2022), ApJ, **938**, 101

148. *Shapes of Milky-Way-Mass Galaxies with Self-Interacting Dark Matter*
D. Vargya, R. Sanderson, O. Sameie, **M. Boylan-Kolchin**, P. Hopkins, A. Wetzel, A. Graus (2021), MNRAS, **516**, 2389

147. *On the Probability of the Extremely Lensed* $z = 6.2$ *Earendel Source Being a Population III Star*
A. Schauer, V. Bromm, N. Drory, **M. Boylan-Kolchin** (2022), ApJ Letters, **934**, L6

146. *Extinguishing the FIRE: Environmental Quenching of Satellite Galaxies around Milky Way-mass Hosts in Simulations*
J. Samuel, A. Wetzel, I. Santistevan, E. Tollerud, J. Moreno, **M. Boylan-Kolchin**, J. Bailin, B. Pardasani (2022), MNRAS, **514**, 5276

145. *Hot-mode Accretion and the Physics of Thin-disk Galaxy Formation*
Z. Hafen, J. Stern, J. Bullock, A. Gurvich, S. Yu, C. Faucher-Giguère, D. Fielding, D. Anglés-Alcázar, E. Quataert, A. Wetzel, T. Starkenburg, **M. Boylan-Kolchin**, J. Moreno, R. Feldmann, K. El-Badry, T. Chan, C. Trapp, D. Kereš, P. Hopkins (2022) MNRAS, **514**, 5056

144. *Sizing from the Smallest Scales: The Mass of the Milky Way*
M. Rodriguez Wimberly, M. Cooper, D. Baxter, **M. Boylan-Kolchin**, J. Bullock, S. Fillingham, A. Ji, L. Sales, J. Simon (2022), MNRAS, **513**, 4968

143. *The In-situ Origins of Dwarf Stellar Outskirts in* FIRE*-2*
E. Kado-Fong, R. Sanderson, J. Greene, E. Cunningham, C. Wheeler, T. K. Chan, K. El-Badry, P. Hopkins, A. Wetzel, **M. Boylan-Kolchin**, C. Faucher-Giguère, S. Huang, E. Quataert, T. Starkenburg (2022), ApJ, **931**, 152

142. *The Effects of LMC-mass Environments on Their Dwarf Satellite Galaxies in the* FIRE *Simulations*
E. Jahn, L. Sales, A. Wetzel, J. Samuel, K. El-Badry, **M. Boylan-Kolchin**, J. Bullock (2022), MNRAS, **513**, 2673

141. *Amplified J-factors in the Galactic Center for Velocity-dependent Dark Matter Annihilation in FIRE Simulations*
D. McKeown, J. Bullock, F. Mercado, Z. Hafen, **M. Boylan-Kolchin**, A. Wetzel, L. Necib, P. Hopkins S. Yu (2022), MNRAS, **513**, 55

140. *The Galaxy-Halo Size Relation of Low-mass Galaxies in* FIRE
E. Rohr, R. Feldmann, J. Bullock, O. Çatmabacak, **M. Boylan-Kolchin**, C. Faucher-Giguère, D. Kereš, L. Liang, J. Moreno, A. Wetzel (2022), MNRAS, **510**, 3967

139. *Galaxies Lacking Dark Matter Produced By Close Encounters in a Cosmological Simulation*
J. Moreno, S. Danieli, J. Bullock, R. Feldmann, P. Hopkins, O. Çatmabacak, A. Gurvich, A. Lazar, C. Klein, C. Hummels, Z. Hafen, F. Mercado, S. yu, F. Jang, C. Wheeler, A. Wetzel, D. Anglés-Alcázar, **M. Boylan-Kolchin**, E. Quataert, C. Faucher-Giguère, D. Kereš (2022), Nature Astronomy, **6**, 496

138. *Metallicity Distribution Function of the Eridanus II Ultra-Faint Dwarf Galaxy from Hubble Space Telescope Narrow-band Imaging*
S. Fu, D. Weisz, E. Starkenburg, N. Martin, A. Ji, E. Patel, **M. Boylan-Kolchin**, P. Côté, A. Dolphin, N. Longeard, M. Mateo, N. Sandford (2022), ApJ, **925**, 6

137. *Planes of Satellites Are Not a Problem for (Just)* Λ*CDM*
M. Boylan-Kolchin (2021), Nature Astronomy, **5**, 1188

136. *From EMBER to* FIRE*: Predicting High Resolution Baryon Fields from Dark Matter Simulations with Deep Learning*
M. Bernardini, R. Feldmann, D. Anglés-Alcázar, **M. Boylan-Kolchin**, J. Bullock, L. Mayer, J. Stadel (2022), MNRAS, **509**, 1323

135. *Globular Clusters and Streaming Velocities: Testing the New Formation Channel in High-resolution Cosmological Simulations*
A. Schauer, V. Bromm, **M. Boylan-Kolchin**, S. Glover, R. Klessen (2021), ApJ, **922**, 193

134. *The Central Densities of Milky Way-mass Galaxies in Cold and Self-Interacting Dark Matter Models*
O. Sameie, **M. Boylan-Kolchin**, R. Sanderson, D. Vargya, P. Hopkins, A. Wetzel, J. Bullock, A. Graus, V. Robles (2021), MNRAS, **507**, 720

133. *Dissipative Dark Matter on FIRE: I. Structural and Kinematic Properties of Dwarf Galaxies*
X. Shen, P. Hopkins, L. Necib, F. Jiang, **M. Boylan-Kolchin**, A. Wetzel (2021), MNRAS, **506**, 4421

132. *A Model for the Formation of Stellar Associations and Clusters from Giant Molecular Clouds*
M. Grudić, J. Diederik Kruijssen, C. Faucher-Giguère, P. Hopkins, X. Ma, E. Quataert, **M. Boylan-Kolchin** (2021), MNRAS; MNRAS, **506**, 3239

131. *HETDEX [OIII] Emitters I: A spectroscopically selected low-redshift population of low-mass, low-metallicity galaxies*
B. Indahl, G. Zeimann, G. Hll, W. Bowman, R. Ciardullo, N. Drory, E. Gawiser, U. Hopp, S. Janowiecki, **M. Boylan-Kolchin**, E. Cooper, D. Davis, D. Farrow, S. Finkelstein, C. Gronwall, A. Kelz, K. McQuinn, D. Schneider, S. Tuttle (2021), ApJ, **916**, 11

130. *Uncertain Times: The Redshift–Time Relation from Cosmology and Stars*
M. Boylan-Kolchin, D. Weisz (2021), MNRAS, **505**, 2764

129. *The Contribution of Globular Clusters to Cosmic Reionization*
X. Ma, E. Quataert, A. Wetzel, C. Faucher-Giguère, **M. Boylan-Kolchin** (2021), MNRAS, **504**, 4062

128. *Planes of Satellites Around Milky Way/M31-Mass Galaxies in the FIRE Simulations and Comparisons with the Local Group*
J. Samuel, A Wetzel, S Chapman, E. Tollerud, P. Hopkins, **M. Boylan-Kolchin**, J. Bailin, C. Faucher-Giguère (2021), MNRAS, **504**, 1379

127. *Out of Sight, Out of Mind? The Impact of Correlated Clustering in Substructure Lensing*
A. Lazar, J. Bullock, **M. Boylan-Kolchin**, R. Feldmann, O. Çatmabacak, L. Moustakas (2021), MNRAS, **502**, 6064

126. *A Relationship Between Stellar Metallicity Gradients and Galaxy Age in Dwarf Galaxies*
F. Mercado, J. Bullock, **M. Boylan-Kolchin**, J. Moreno, A. Wetzel, K. El-Badry, A. Graus, A. Fitts, P. Hopkins, C. Faucher-Giguère (2021), MNRAS, **501**, 5121

125. *NGC 6822 as a Probe of Dwarf Galactic Evolution*
B. Belland, E. Kirby, **M. Boylan-Kolchin**, C. Wheeler (2020), ApJ, **903**, 10

124. *A Dark Matter Profile to Model Diverse Feedback-Induced Core Sizes of ΛCDM Halos*
A. Lazar, J. Bullock, **M. Boylan-Kolchin**, T. Chan, P. Hopkins, A. Graus, A. Wetzel, K. El-Badry, C. Wheeler, M. Straight, D. Kereš, C. Faucher-Giguère, A. Fitts, S. Garrison-Kimmel (2020), MNRAS, **497**, 2393

123. *Growing Pains: The Formation Times and Building Blocks of Milky Way-mass Galaxies in the FIRE Simulations*
I. Santistevan, A Wetzel, K. El-Badry, J. Bland-Hawthorn, **M. Boylan-Kolchin**, J. Bailin, C. Faucher-Giguère, S. Benincasa (2020), MNRAS, **497**, 747

122. *Stellar Feedback Sets the Universal Acceleration Scale in Galaxies*
M. Grudić, **M. Boylan-Kolchin**, C. Faucher-Giguère, P. Hopkins (2020), MNRAS, **496**, L127

121. *Galaxy Formation with BECDM - II. Cosmic Filaments and First Galaxies*
P. Mocz, A. Fialkov, M. Vogelsberger, F. Becerra, X. Shen, V. Robles, M. Amin, J. Zavala, **M. Boylan-Kolchin**, S. Bose, F. Marinacci, P. Chavanis, L. Lancaster, L. Hernquist (2020), MNRAS, **494**, 2027

120. *Stars Made in Outflows May Populate the Outer Stellar Halo of the Milky Way*
S. Yu, J. Bullock, A. Wetzel, R. Sanderson, A. Graus, **M. Boylan-Kolchin**, A. Nierenberg, M. Grudić, P. Hopkins, D. Kereš, C. Faucher-Giguère (2020), MNRAS, **494**, 1539

119. *The Orbital Histories of Magellanic Satellites Using Gaia DR2 Proper Motions*
E. Patel, N. Kallivayalil, N. Garavito-Camargo, G. Besla, D. Weisz, R. Van Der Marel, **M. Boylan-Kolchin**, M. Pawlowski, F. Gómez (2020), ApJ, **893**, 121

118. *Self-consistent Proto-globular Cluster Formation in Cosmological Simulations of High-redshift Galaxies*
X. Ma, M. Grudić, E. Quataert, P. Hopkins, C. Faucher-Giguère, **M. Boylan-Kolchin**, A. Wetzel, J. Kim, N. Murray, D. Kereš (2020), MNRAS, **493**, 4315

117. *Evolution of Giant Molecular Clouds Across Cosmic Time*
D. Guszejnov, M. Grudić, S. Offner, **M. Boylan-Kolchin**, C. Faucher-Giguère, A. Wetzel, S. Benincasa, S. Loebman (2020), MNRAS, **492**, 488

116. *A Profile in FIRE: Resolving the Radial Distributions of Satellite Galaxies in the Local Group with Simulations*
J. Samuel, A. Wetzel, E. Tollerud, S. Garrison-Kimmel, S. Loebman, K. El-Badry, P. Hopkins, **M. Boylan-Kolchin**, C. Faucher-Giguère, J. Bullock, S. Benincasa, J. Bailin (2020), MNRAS, **491**, 1471

115. *Star Formation at the Edge of the Local Group: A Rising Star Formation History in the Isolated Galaxy WLM*
S. Albers, D. Weisz, A. Cole, A. Dolphin, E. Skillman, B. Williams, **M. Boylan-Kolchin**, J. Bullock, J. Dalcanton, P. Hopkins, R. Leaman, A. McConnachie, M. Vogelsberger, A. Wetzel (2019), MNRAS, **490**, 5538

114. *Be it therefore resolved: Cosmological Simulations of Dwarf Galaxies with Extreme Resolution*
C. Wheeler, P. Hopkins, A. Pace, S. Garrison-Kimmel, **M. Boylan-Kolchin**, A. Wetzel, J. Bullock, D. Kereš, C. Faucher-Giguère, E. Quataert (2019), MNRAS, **490**, 4447

113. *A Predicted Correlation Between Age Gradient and Star Formation History in FIRE Dwarf Galaxies*
A. Graus, J. Bullock, A. Fitts, M. Cooper, **M. Boylan-Kolchin**, D. Weisz, A. Wetzel, R. Feldmann, C. Faucher-Giguère, E. Quataert, P. Hopkins, D. Kereš (2019), MNRAS, **490**, 1186

112. *Dwarf Galaxies in CDM, WDM, and SIDM: Disentangling Baryons and Dark Matter Physics*
A. Fitts, **M. Boylan-Kolchin**, B. Bozek, J. Bullock, A. Graus, V. Robles, P. Hopkins, K. El-Badry, S. Garrison-Kimmel, C. Faucher-Giguère, A. Wetzel, D. Kereš (2019), MNRAS, **490**, 962

111. *Star Formation Histories of Dwarf Galaxies in the FIRE Simulations: Dependence on Mass and Local Group Environment*
S. Garrison-Kimmel, A. Wetzel, P. Hopkins, R. Sanderson, K. El-Badry, A. Graus, T.K. Chan, R. Feldmann, **M. Boylan-Kolchin**, C. Hayward, J. Bullock, A. Fitts, J Samuel, C. Wheeler, D. Kereš, C. Faucher-Giguère (2019), MNRAS, **489**, 4574

110. *First Star-forming Structures in Fuzzy Cosmic Filaments*
P. Mocz, A. Fialkov, M. Vogelsberger, F. Becerra, M. Amin, S. Bose, **M. Boylan-Kolchin**, P. Chavanis, L. Hernquist, L. Lancaster, F. Marinacci, V. Robles, J. Zavala (2019), Physical Review Letters, **123**, 14130

109. *Dark and Luminous Satellites of LMC-mass Galaxies in the FIRE Simulations*
E. Jahn, L. Sales, A. Wetzel, **M. Boylan-Kolchin**, T. Chan, K. El-Badry, A. Lazar, J. Bullock (2019), MNRAS, **489**, 5348

108. *How Low Does It Go? Too Few Galactic Satellites with Standard Reionization Quenching*
A. Graus, J. Bullock, T. Kelley, **M. Boylan-Kolchin**, S. Garrison-Kimmel, Y. Qi (2019), MNRAS, **488**, 4585

107. *Phat ELVIS: The inevitable effect of the Milky Way's disk on its dark matter subhaloes*
T. Kelley, J. Bullock, S. Garrison-Kimmel, **M. Boylan-Kolchin**, M. Pawlowski, A. Graus (2019), MNRAS, **487**, 4409

106. *The Local Group on Fire: Dwarf Galaxy Populations Across a Suite of Hydrodynamic Simulations*
S. Garrison-Kimmel, P. Hopkins, A. Wetzel, J. Bullock, **M. Boylan-Kolchin**, C. Faucher-Giguère, D. Kereš, K. El-Badry, A. Lamberts, E. Quataert, R. Sanderson (2019), MNRAS, **487**, 1380

105. *Warm FIRE: Simulating Galaxy Formation with Resonant Sterile Neutrino Dark Matter*
B. Bozek, A. Fitts, **M. Boylan-Kolchin**, S. Garrison-Kimmel, K. Abazajian, J. Bullock, D. Kereš, C. Faucher-Giguère, A. Wetzel, R. Feldmann, P. Hopkins (2019), MNRAS, **483**, 4086

104. *The Suppression of Star Formation on the Smallest Scales: What Role Does Environment Play?*
M. Rodriguez Wimberly, M. Cooper, S. Fillingham, **M. Boylan-Kolchin**, J. Bullock, S. Garrison-Kimmel (2019), MNRAS, **483**, 4031

103. *Statistics of Two-point Correlation and Network Topology for Lyman Alpha Emitters at* $z \approx 2.67$
S. Hong, A. Dey, K. Lee, A. Orsi, K. Gebhardt, M. Vogelsberger, L. Hernquist, R. Xue, I. Jung, S. Finkelstein, S. Tuttle, **M. Boylan-Kolchin** (2019), MNRAS, **483**, 3950

102. *Scalar Field Dark Matter: Helping or Hurting Small-Scale Problems in Cosmology?*
V. Robles, J. Bullock, **M. Boylan-Kolchin** (2019), MNRAS, **483**, 289

101. *What Drives the Kinematic Evolution of Star-forming Galaxies?*
C. Hung, C. Hayward, T. Yuan, **M. Boylan-Kolchin**, C. Faucher-Giguère, P. Hopkins, D. Kereš, N. Murray, A. Wetzel (2019), MNRAS, **482**, 5125

100. *The Formation and Hierarchical Assembly of Globular Cluster Populations*
K. El-Badry, E. Quataert, D. Weisz, N. Choksi, **M. Boylan-Kolchin** (2019), MNRAS, **482**, 4528

99. *The Origin of the Diverse Morphologies and Kinematics of Milky Way-Mass Galaxies in the FIRE-2 Simulations*
S. Garrison-Kimmel, P. Hopkins, A.Wetzel, R. Sanderson, J. Bullock, X. Ma, F. van de Voort, Z. Hafen, C. Faucher-Giguère, C. Hayward, E. Quataert, D. Kereš, **M. Boylan-Kolchin** (2018), MNRAS, **481**, 4133

98. *From the Top Down and Back Up Again: Star Cluster Structure from Hierarchical Star Formation*
M. Grudić, D. Guszejnov, P. Hopkins, A. Lamberts, **M. Boylan-Kolchin**, N. Murray, D. Schmitz (2018), MNRAS, **481**, 688

97. *Discrete Effects in Stellar Feedback: Individual Supernovae, Hypernovae, and IMF Sampling in Dwarf Galaxies*
K. Su, P. Hopkins, C. Hayward, X. Ma, **M. Boylan-Kolchin**, D. Kasen, D. Kereš, C. Faucher-Giguère, M. Orr (2018), MNRAS, **480**, 1666

96. *Through a Smoother Lens: An Expected Absence of LCDM Substructure Mass Detections in Hydrodynamic and Dark Matter Only Simulations*
A. Graus, J. Bullock, **M. Boylan-Kolchin**, A. Nierenberg (2018), MNRAS, **480**, 1322

95. *The FIRE-2 Simulations: Physics versus Numerics in Galaxy Formation*
P. Hopkins and 27 co-authors, including **M. Boylan-Kolchin** (2018), MNRAS, **480**, 800

94. *Where Are the Most Ancient Stars in the Milky Way?*
K. El-Badry, J. Bland-Hawthorn, A. Wetzel, E. Quataert, D. Weisz, **M. Boylan-Kolchin**, P. Hopkins, C. Faucher-Giguère, D. Kereš, S. Garrison-Kimmel (2018), MNRAS, **480**, 652

93. *The Little Engines That Could? Globular Clusters Contribute Significantly to Reionization-era Star Formation*
M. Boylan-Kolchin (2018), MNRAS, **479**, 332

92. *No Assembly Required: Mergers are Mostly Irrelevant for the Growth of Low-mass Dwarf Galaxies*
A. Fitts, **M. Boylan-Kolchin**, J. Bullock, D. Weisz, K. El-Badry, C. Wheeler, C. Faucher-Giguère, E. Quataert, P. Hopkins, D. Kereš, A. Wetzel (2018), MNRAS, **479**, 319

91. *Simulating Galaxies in the Reionization Era with FIRE-2: the Stellar Mass–Halo Mass Relation, Stellar Mass Function, and Luminosity Functions at* $z \geq 5$
X. Ma, P. Hopkins, S. Garrison-Kimmel, C. Faucher-Giguère, E. Quataert, **M. Boylan-Kolchin**, C. Hayward, R. Feldmann, D. Kereš (2018), MNRAS, **478**, 1694

90. *The Origin of Ultra-diffuse Galaxies: Stellar Feedback and Quenching*
T. Chan, D. Kereš, A. Wetzel, P. Hopkins, C. Faucher-Giguère, K. El-Badry, S. Garrison-Kimmel, **M. Boylan-Kolchin** (2018), MNRAS, **478**, 906

89. *Environmental Quenching of Low-Mass Field Galaxies*
S. Fillingham, M. Cooper, **M. Boylan-Kolchin**, J. Bullock, S. Garrison-Kimmel, C. Wheeler (2018), MNRAS, **477**, 4491

88. *ETHOS - An Effective Theory of Structure Formation: Predictions for the High-redshift Universe – Abundance of Galaxies and Reionization*
M. Lovell, J. Zavala, M. Vogelsberger, X. Shen, F. Cyr-Racine, C. Pfrommer, K. Sigurdson, **M. Boylan-Kolchin**, A. Pillepich (2018), MNRAS, **477**, 2886

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