AGENDA

# Center for Computational Astrophysics

**Flatiron Institute**

# Galaxy Formation Grand Challenge Consortium

## April 24-25, 2017

## Host: Rachel Somerville, Greg Bryan

**Wi-Fi: 162Guests**

**Password: simonsnyc**

***Monday, April 24***

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| 8:30 AM – 9:00 AM | Breakfast | 162 Fifth Ave.  7th Floor Classroom |
| 9:00 AM – 12:00 PM | **Closed Session of Planning Committee**  Topics:  -Structure & operation of collaboration — working groups, telecons, face-to-face meetings, workshops  -Process for adding new members  -Publication policy  -Interaction/relationships with other collaborations  -Constructing a plan of work  \**30 minute break at 10:30 AM* | 162 Fifth Ave.  7th Floor Conference Room |
| 12:30 PM – 1:30 PM | **Lunch** | 162 Fifth Ave.  7th Floor Classroom |
| 1:30 PM – 2:00 PM | **Welcome, Introductions, and Overview:**  **project and meeting goals**  David, rachel, Greg | 162 Fifth Ave.  7th Floor Classroom |
| 2:00 PM – 3:30 PM | BH Growth and Feedback on “Small” Scales **Discussion Leads: Jim, Melanie, Eli**  BH seed formation and growth in cosmological simulations — Melanie and Eli Resolving the Bondi radius in cosmological simulations — TBD Modeling luminous accretion flows and jet formation — Jim Connecting to modeling of feedback on pc to kpc scales — Jim & Eliot  Better feedback models for cosmological codes: what will it take?  — Jim, Melanie, and Eli | 162 Fifth Ave.  7th Floor Classroom |
| 3:30 PM – 4:00 PM | Break | 162 Fifth Ave.  7th Floor Classroom |
| 4:00 PM – 5:30 PM | BH Growth and Feedback on “Meso” Scales **Discussion Leads: Eliot, Daniel, Yuan**  Overview:   Fueling and Feedback  critical role of fueling estimate and its uncertainty -- Eliot AGN Winds & Radiation -- Daniel  momentum-driven winds in cosmological zooms -- rachel  AGN Jets in groups and clusters -- Yuan | 162 Fifth Ave.  7th Floor Classroom |
| 5:30 PM – 6:00 PM | **Discussion and Breakout Groups** | 162 Fifth Ave.  7th Floor Classroom |
| 6:00 PM | **Group Dinner** | Park Avenue Spring  360 Park Avenue S |
| ***Tuesday, April 25*** |  |  |
| 8:30 AM – 9:00 AM | **Breakfast** | 162 Fifth Ave.  7th Floor Classroom |
| **9:00 AM – 10:00 AM** | **Breakout Groups/Individual Meetings** | 162 Fifth Ave.  7th Floor Classroom |
| 10:00 AM – 11:30 AM | **Connection with Larger Scales: Global Galaxy Models**  **And Cosmological Simulations**  **Discussion Leads: Lars, Romain, Shy**  summary of existing sub-grid recipes & simulations (Lars)  role of magnetic fields and radiation (Romain)  **Links with Observations and Cosmological Experiments**  **discussion lead: Nick**  summary of relevant cosmological probes & experiments  discussion: which quantities should be be targeting? | 162 Fifth Ave.  7th Floor Classroom |
| 11:30 AM – 12:30 PM | **Resolves ISM, Star Formation, and Stellar Feedback**  **Discussion Lead:** Eve  Presenters: Chang-Goo, Chia-Yu, Miao, Chris | 162 Fifth Ave.  7th Floor Classroom |
| 12:30 PM – 1:30 PM | **Lunch** | 162 Fifth Ave.  7th Floor Classroom |
| 1:30 PM – 2:00 PM | **Resolved ISM, Star Formation, and Stellar Feedback (cont.)** | 162 Fifth Ave.  7th Floor Classroom |
| 2:00 PM – 3:00 PM | **Data Products, Synthetic Observations and Simulation Archiving**  **Discussion Lead: Chris** | 162 Fifth Ave.  7th Floor Classroom |
| 3:00 PM – 4:00 PM | **Wrap-Up Discussion**  -Choose new collaboration name  -Working group operations  -Summer meeting/workshop scheduling | 162 Fifth Ave.  7th Floor Classroom |
| 4:00 PM – 6:00 PM | **Closed Session of Planning Committee** | 162 Fifth Ave.  7th Floor Conference Room |