

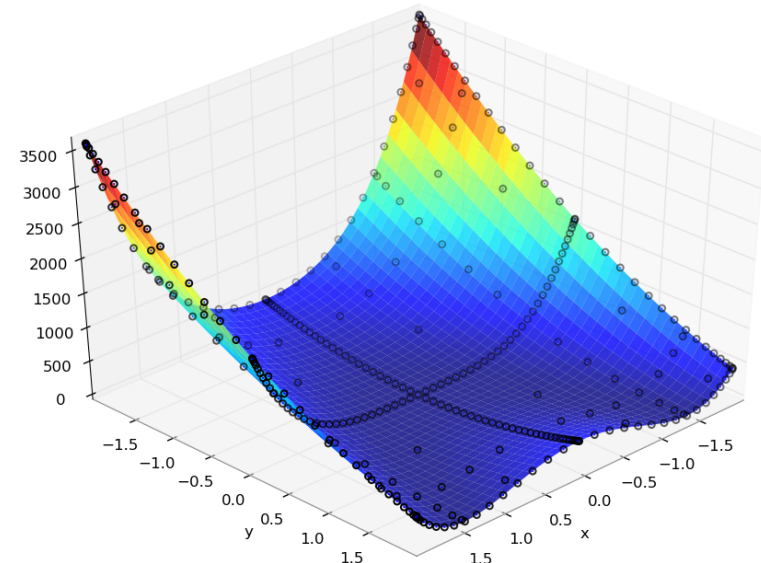


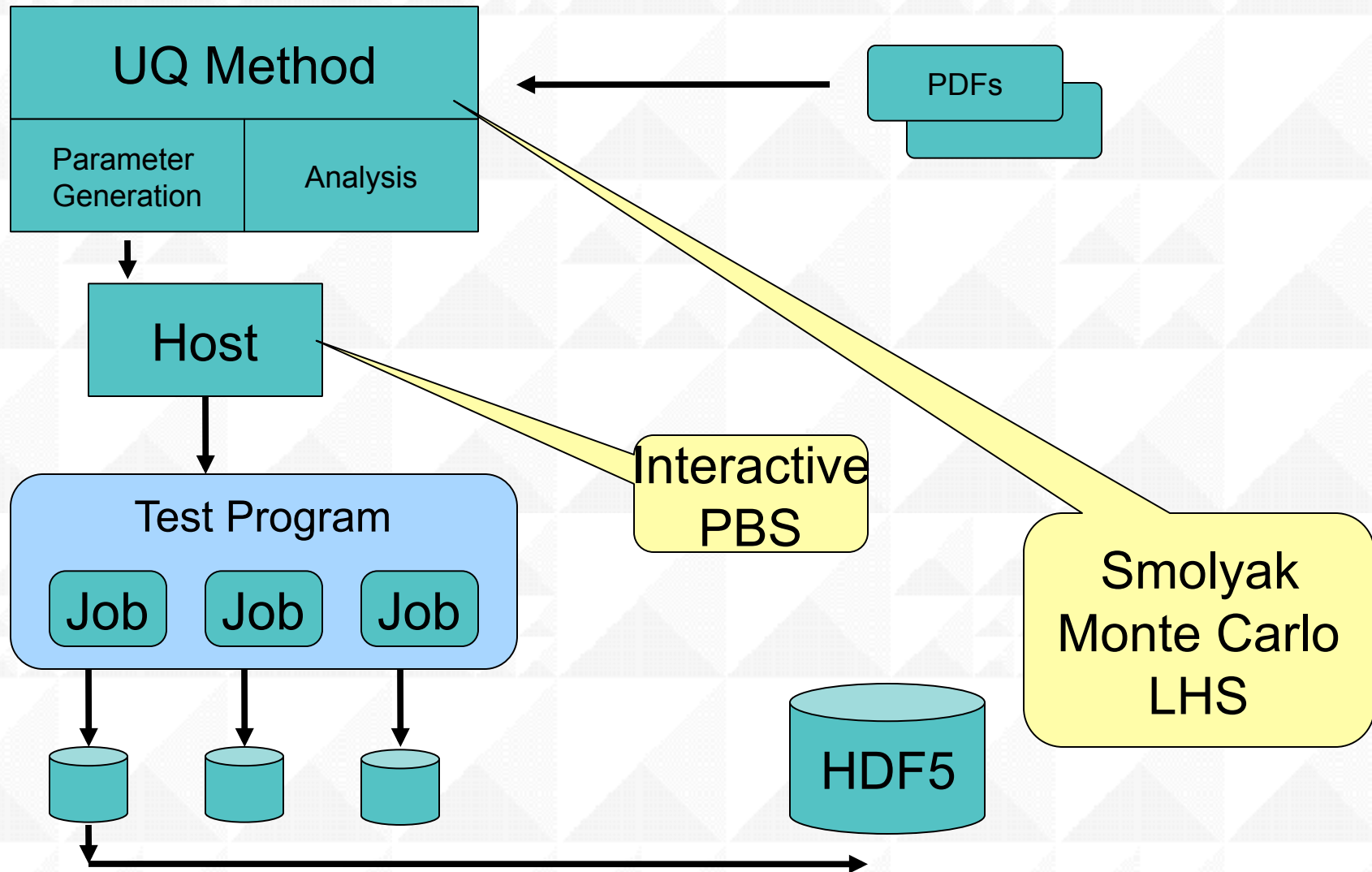
# ME 597/AAE 590 : Introduction to Uncertainty Quantification

Lecture 6: Using MEMOSA UQ Software  
Martin Hunt (mmh@purdue.edu)  
Purdue University

# PUQ (PRISM UQ)

- Uncertainty Quantification Framework
- Allows the use of different UQ methods with external simulations.
- Schedules Jobs.
- Collects Data.
- Visualization.





# MEMSHUB

- We will be using PUQ on MEMSHUB
- <http://memshub.org/>
- Click on the “Register” button in the upper-right corner and create an account.
- You will receive an email with a link to confirm your account.

The screenshot shows a web browser window with the URL <https://memshub.org/myhub/>. The page features the memshub logo at the top left and a search bar at the top right. A navigation menu is visible below the logo, including links for Home, My HUB, Resources, Members, Events, About, and Support. A user profile dropdown menu is open, listing options such as What's New, Contribute, Animations, Courses, Downloads, Notes, Online Presentations, Publications, Series, Teaching Materials, Tools, and Workshops. The main content area is divided into several sections: My memsHU, My Sessions, My Tools, My Contributions, My Submissions, MyHUB Introduction, My Favorites, My Groups, My Tickets, Submitted Tickets, Assigned Tickets, and Tickets On My Contributions. A yellow callout box with a black border points to the 'Tools' option in the navigation menu, containing the text: "Once logged in, look under Resources/Tools". The browser's address bar at the bottom shows the URL <https://memshub.org/resources/tools>.

Once logged in,  
look under  
Resources/Tools

### Resources: Tools

Tools Go

#### Tag

- [ All ]
- damping (1)
- RF MEMS (1)
- uncertainty quantification (1)

#### Resources

Sort by: Title

- ▶ Coarse-grained Model for RF MEMS Device
- ▶ Q-factor calculator with Uncertainty ...
- ▶ **Workspace**
- ▶

#### Info

**Workspace**

Workspace [Learn more](#)

**Launch Tool** →

0 Citation(s)  
0 questions (Ask a question)  
0 review(s) (Review this)  
[Add to your favorites!](#)

Click on Workspace then Launch Tool

#### Top Rated

##### Workspace

05 Mar 2009 Tools  
Workspace

★★★★★ 0.0 out of 5 stars

The following are top-rated resources of this type.

```
javascript:HUB.TagBrowser.nextLevel('7','2','3,col2_2');
```

## Workspace

Tool Questions? About Refresh Window Popout Close

Color xterm

```
localhost ~
```

Applet started.

# Using the Workspace

In each new terminal, you must type 'source /apps/memosa/env.sh' to setup the environment to use PUQ.

You can close the browser and the workspace will be saved until you log in again.

After you resize the workspace, you may need to right click and select Programs/Window Managers/IceWM.

# PUQ DEMO

## ONLINE PUQ DOCUMENTATION

[http://memshub.org/site/memosa\\_docs/puq/](http://memshub.org/site/memosa_docs/puq/)