3P-Statistics Projects

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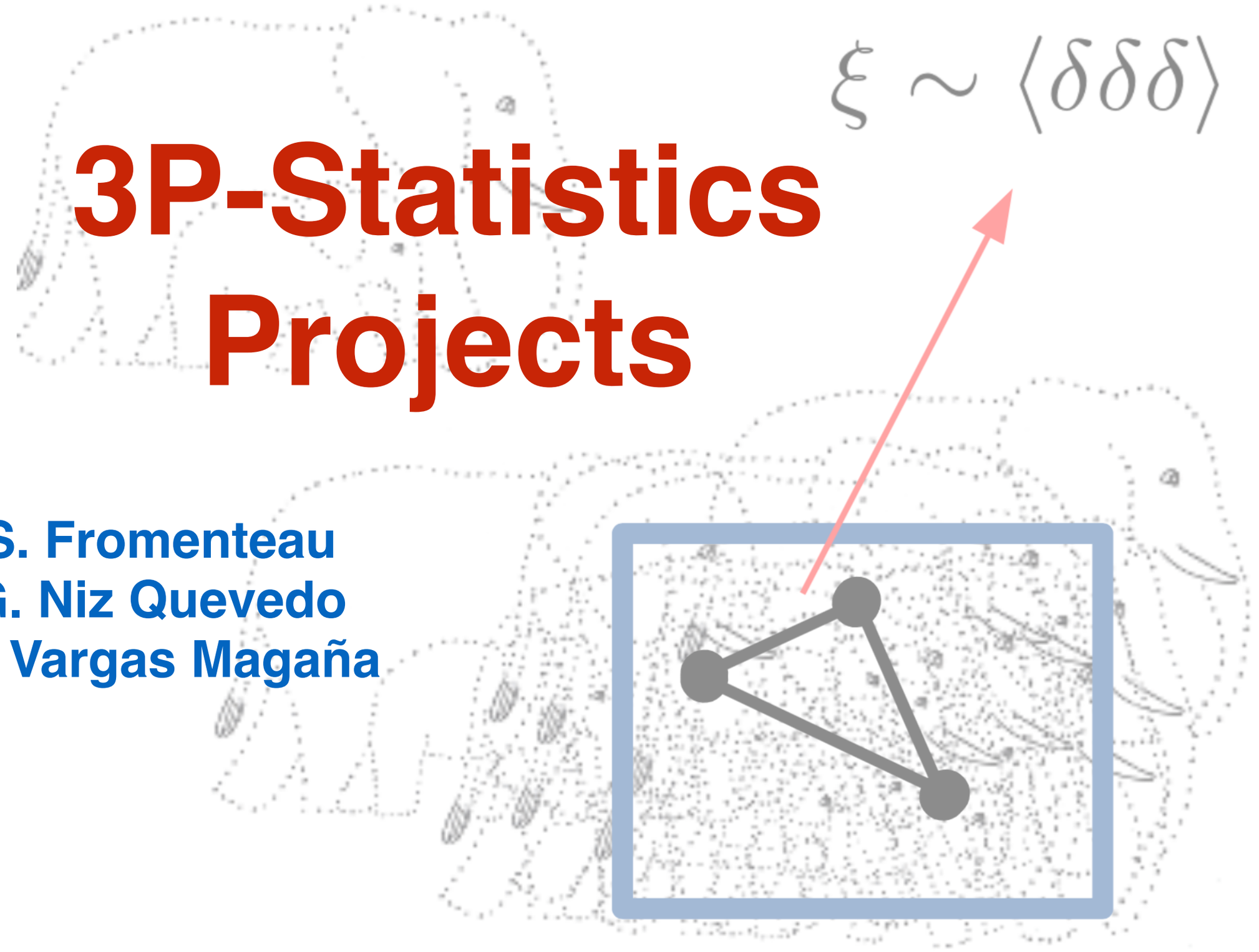

	MONDAY	TUESDAY	WEDNESDAY	THURSDAY	FRIDAY
9:00-9:30	Welcome/logistics	Spotlight talks	Spotlight talks	**Lyman Alpha &** **3pt statistics** **(Josue de Santiago)**	**3pt statistics** **(Alejandro Aviles, TBC)**
9:30-11:00	**Statistics** **(Mario Carranza)**	**Statistics** **(Mario Carranza)**	**Statistics** **(Mario Carranza)**	**Statistics** **(Alberto Vazquez)**	**3pt statistics** **(Alejandro Aviles, TBC)** Project
11:00-11:30	Coffee	Coffee	Coffee	Coffee	Coffee
11:30-13:30	**Lyman Alpha** **(Julian Bautista)**	**El t-walk: MCMC semi-automático y algunos usos en astronomía** **(Andrés Christen)** **Lyman Alpha** **(Julian Bautista)**	2PS-FP	**Lyman Alpha** **(Julian Bautista)**	Project Projects presentations
13:30-16:00	Lunch	Lunch	Lunch	Lunch	End
16:00-18:00	**Gaussian Random Fields &** **2P-Statistics** **(Sebastien Fromenteau)**	3pt Statistics (Gustavo Niz)	MEXICOPAS*	3PS	
18:00-18:30	Coffee	2PS-CS	MEXICOPAS*		
18:30-19:00	eBOSS data		MEXICOPAS*		
19:00-19:30	Project presentations		MEXICOPAS*		

- Level I:
  - Never done before (if you have heard about but never done, you should do it once, so this is your level)
- Level II:
  - if you have a code written by your own for performing level 1.

  “El diablo esta en los detalles”(proverbio popular)
- Level III:
  - if you have a code written by your own for performing level 1 and 2.

2-Point Statistics Configuration Space

- 2P-CS Nivel I: More Guided Style
    - Ex.1 2PCF estimators
        - Naive Estimator,
        - Landy Szalay Isotropic
        - No of Randoms,
        - Normalization
    - Ex 2. Using real Data
        - Using real data,
        - Weights FKP
- 2P-CS Nivel II: (Hack style ie. little guide)
    - Ex 3. Redshift Space & 2PCF
        - generating RSD mocks
        - Landy Szalay Anisotropic, Multipoles, Wedges

2-Point Statistics Fourier Space

- PS (2 hrs)-Wednesday
- 2P-FS Nivel I: More Guided Style
  - Ex 6. Power Spectrum
    - Fourier Transform
    - Density Estimation, NN
    - power spectrum 2D
- 2P-FS Nivel II: (Hack style ie. little guide)
  - Ex 7. Power Spectrum of Real Data

3-Point Statistics Configuration/Fourier Space

- 1.5 hrs CF
  - Nivel II (More Guided Style)
    - Ex 8. 3PCF brute-force and 3PCF Visualization
  - Nivel III (Hack style i.e. little guide)
    - Ex 9: 3PCF Slepian-Eisenstein estimator (requiere NIVEL II)

- 1.5 hrs FS
  - NIVEL II: (Hack style ie. little guide)
    - Ex 10. Power spectrum anisotropic (requiere power spectrum 2D)
  - NIVEL III: (Hack style ie. little guide)
    - Ex 11. Bi-spectrum for equilateral triangles in periodic boxes. (require NIVEL II)