Image Correlation

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1 Papers from Giulia

On Aug. 30th, 2016 Giulia sent me two papers on correlation techniques. These papers may illuminate a path to find a signal in the pumped Ni circles that Liz made (Ni sample B). She sent me one paper from NanoLetters [1] and one from Science [2]. "The analysis reported in Nano Letters is particularly of interest for our case." - Giulia

REFERENCES

- [1] Oh Hoon Kwon, Brett Barwick, Hyun Soon Park, J. Spencer Baskin, and Ahmed H. Zewail. Nanoscale mechanical drumming visualized by 4D electron microscopy. *Nano Letters*, 8(11):3557–3562, 2008.
- [2] Brett Barwick, Hyun Soon Park, Oh-Hoon Kwon, J. Spencer Baskin, and Ahmed H. Zewail. 4D Imaging of Transient Structures and Morphologies in Ultrafast Electron Microscopy. *Science*, 322(11):1227 – 1231, 2008.

1.1 Leftover from template

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$$(x+y)^{3} = (x+y)^{2}(x+y)$$

$$= (x^{2} + 2xy + y^{2})(x+y)$$

$$= (x^{3} + 2x^{2}y + xy^{2}) + (x^{2}y + 2xy^{2} + y^{3})$$

$$= x^{3} + 3x^{2}y + 3xy^{2} + y^{3}$$
(1.1)

Phasellus viverra nulla ut metus varius laoreet. Quisque rutrum. Aenean imperdiet. Etiam ultricies nisi vel augue. Curabitur ullamcorper ultricies

1.2 HEADING ON LEVEL 2 (SUBSECTION)

Lorem ipsum dolor sit amet, consectetuer adipiscing elit.

$$A = \begin{bmatrix} A_{11} & A_{21} \\ A_{21} & A_{22} \end{bmatrix} \tag{1.2}$$

Aenean commodo ligula eget dolor. Aenean massa. Cum sociis natoque penatibus et magnis dis parturient montes, nascetur ridiculus mus. Donec quam felis, ultricies nec, pellentesque eu, pretium quis, sem.

1.2.1 HEADING ON LEVEL 3 (SUBSUBSECTION)

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HEADING ON LEVEL 4 (PARAGRAPH) Suspendisse vel felis. Ut lorem lorem, interdum eu, tincidunt sit amet, laoreet vitae, arcu. Aenean faucibus pede eu ante. Praesent enim elit, rutrum at, molestie non, nonummy vel, nisl. Ut lectus eros, malesuada sit amet, fermentum eu, sodales cursus, magna. Donec eu purus. Quisque vehicula, urna sed ultricies auctor, pede lorem egestas dui, et convallis elit erat sed nulla. Donec luctus. Curabitur et nunc. Aliquam dolor odio, commodo pretium, ultricies non, pharetra in, velit. Integer arcu est, nonummy in, fermentum faucibus, egestas vel, odio.

2 Lists

2.1 EXAMPLE OF LIST (3*ITEMIZE)

· First item in a list

- First item in a list
 - * First item in a list
 - * Second item in a list
- Second item in a list
- Second item in a list

2.2 EXAMPLE OF LIST (ENUMERATE)

- 1. First item in a list
- 2. Second item in a list
- 3. Third item in a list