Lecture 1

July-11-11
2:06 AM

Before lecture:

- √0. Print this page.
- √1. Distribute handouts. } In place even before prev. speaker.
- √2. Set up video camera }
- 3. Set up projector

Lecture:

0. Video recording does not suggest quality. The presence of a colour handout does not suggest that we will follow it.
1. A word about the overall subjects "expansions" Much like Taylor, have power (approximate, case solving, carriers of comb. information) & weaknesses. A little more surprising is their Depth.
2. The base plan: Expansions are the thread connecting physics to topology to algebra. } Show WIB page.
   - .... reality may be different.
   - .... display the handouts.

3. Show of hands: How many of you, given a Lagrangian, would know why & how to write the corresponding "Feynman Expansion into Feynman Diagrams"?

(... that would be our second topic ...)

4. Splash Scene: The Stonehenge Story.

(then splash the CS path integral)

5. Go over Feynman diagrams in $\mathbb{R}^n$ the Fourier way, inquire whether to prove the Fourier transform for Gaussians.