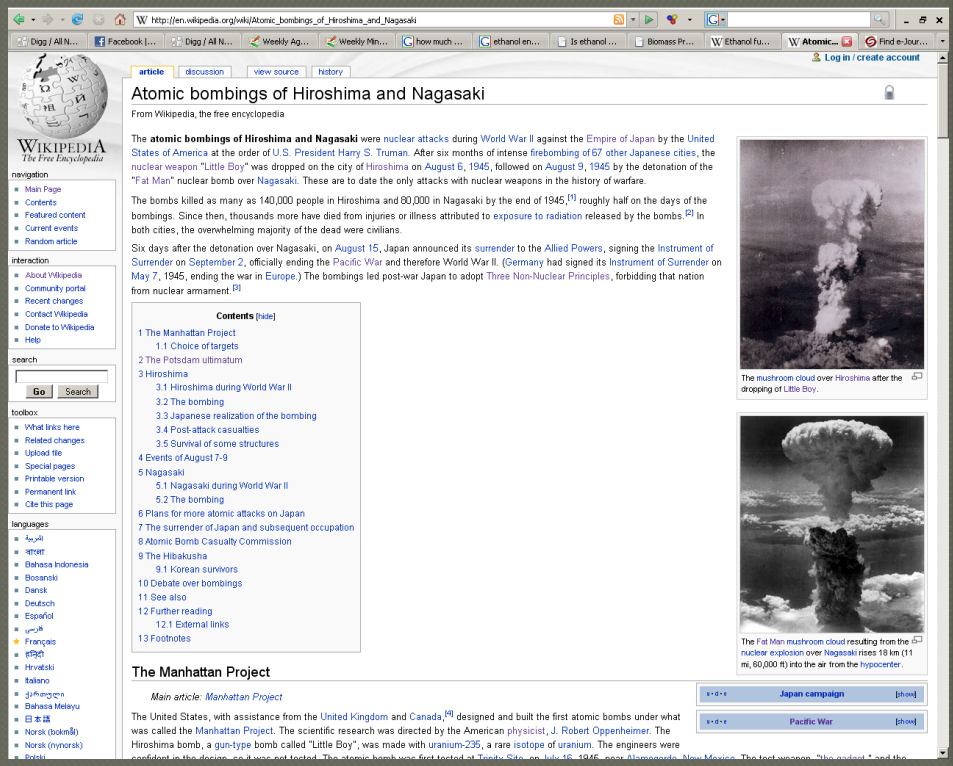
A Short Introduction to Dokuwiki

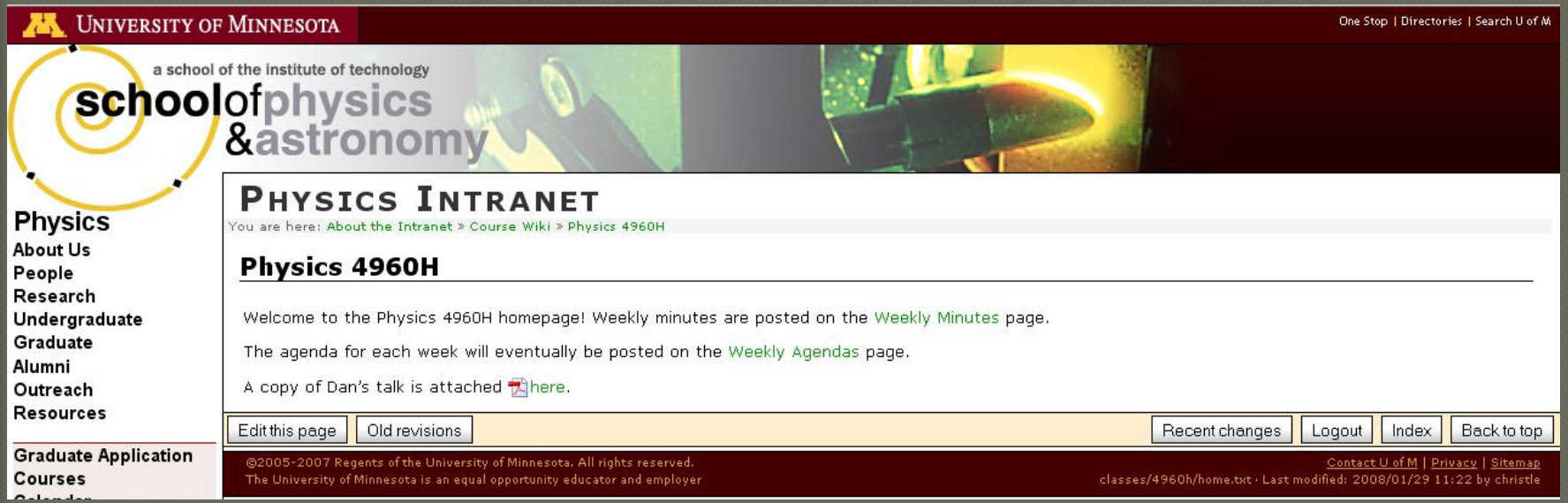
David Christle

What is a wiki?

- Server-side software that allows easy collaborative editing and linking of articles
- Supports text, images, tables, equations, attachments, links to internal/external sites
- Easy to use (no HTML knowledge required) but still very powerful



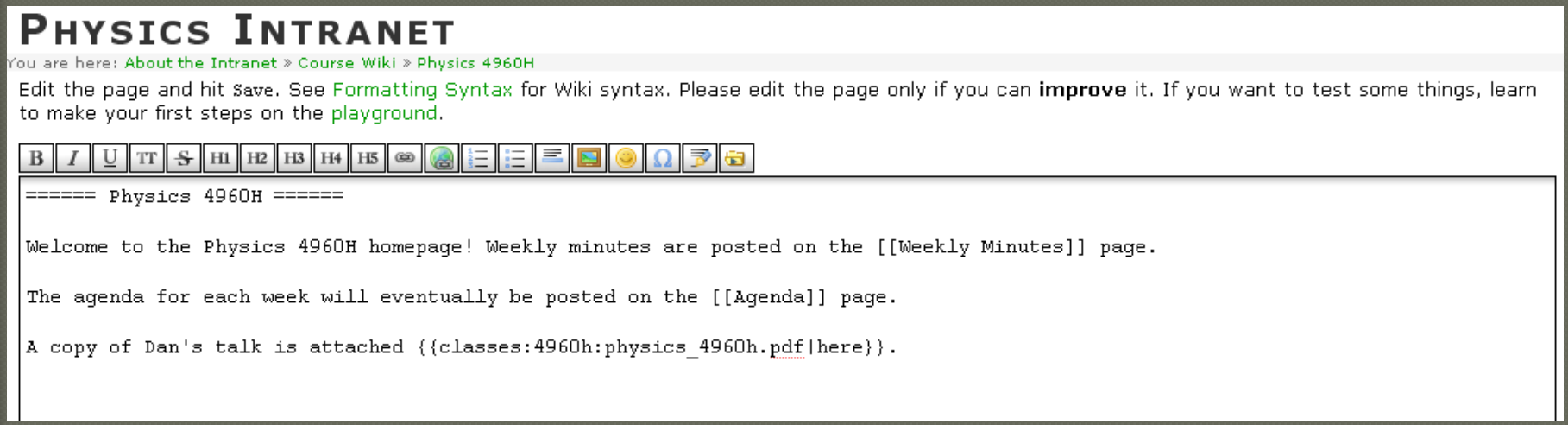
Our wiki site



https://zzz.physics.umn.edu/classes/4960h/home

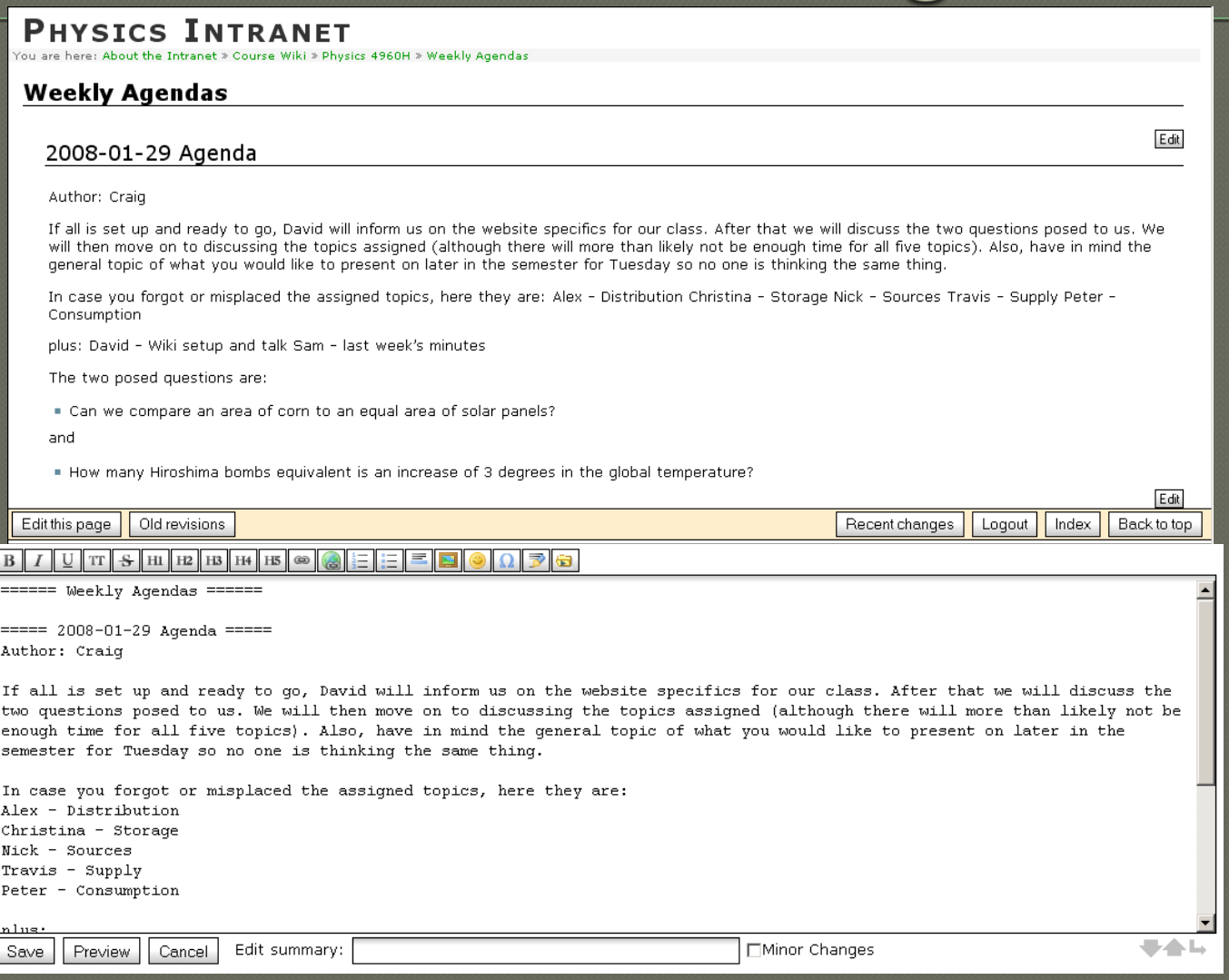
- What can the software do?
  - This page contains two internal links (to our own site) and a PDF attachment of Dan's talk from last week

Editing content



- How do we edit?
  - Physics accounts
    - I need list for access
    - New accounts can e-mail net@physics.umn.edu to get one setup.
      - Passwords can be picked up in S43, or the staff can use gpg to send the password via e-mail (of course this requires a public key exchange)
  - Need to know some basic wiki syntax
    - Toolbar provides most of what everyone needs to know
    - Clicking each button inserts the proper “code” into the textbox at the position of the cursor
    - Once the default text is in the textbox, just edit it to do what you want

Editing content



Creating new pages

- What if a topic doesn't exist?
  - Link to it and then create it
  - Preview & save

Equation formatting

Suppose V is a subset of $\mathbf{R}^n$ (in the case of $n = 3$, V represents a volume in 3D space) which is compact and has a piecewise smooth boundary. If $\mathbf{F}$ is a continuously differentiable vector field defined on a neighborhood of V, then we have

$$\iiint_V (\nabla \cdot \mathbf{F})\, dV = \iint_{\partial V} \mathbf{F} \cdot \mathbf{n}\, dS.$$

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Suppose ''V'' is a subset of '''R'''<sup>''n''</sup> (in the case of ''n'' = 3, ''V'' represents a volume in 3D space) which is
[[compact space|compact]] and has a [[piecewise]] [[smooth function|smooth]] [[boundary (topology)|boundary]]. If '''F''' is a
[[continuously differentiable]] vector field defined on a neighborhood of ''V'', then we have

:<math>\iiint\limits_V \left(\nabla\cdot\mathbf{F}\right)dV=\iint\limits_{\part V} \mathbf{F} \cdot \mathbf{n}\, dS.</math>
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- LaTeX syntax (original Wikipedia math syntax)
  - PHP Math Publisher plugin is installed
    - Syntax is very different from LaTeX
    - If you have no experience with entering equations, you may find the learning curve more shallow with PHPMathPublisher
  - MultiMath
    - Syntax identical to above, basically identical to LaTeX
    - Not installed, but working on it

Other remarks

- Old revisions
  - Keeps track of all edits, including who performed the edit and the difference between two adjacent edits
- Experimenting
  - No access to the sandbox yet, but previewing still works
- Attachments
  - Can be done through the toolbar and once uploaded, clicking on the icon representation of the file uploaded will insert into text box, e.g. Dan's talk on the main page
- Restricted read access
  - Possible, but not implemented yet (the wiki is world-viewable)
- I'll upload this talk to the Wiki.