

```
{"ImageComments" → {"94-117_PC300690.jpg" → "Course description",
  "94-117_PC300691.jpg" → "Information sheet",
  "94-117_PC300692.jpg" → "Particle in harmonic oscillator",
  "94-117_PC300693.jpg" → "Particle in harmonic oscillator (2)",
  "94-117_PC300694.jpg" → "Particle in harmonic oscillator (3)",
  "94-117_PC300695.jpg" → "Particle in harmonic oscillator (4)",
  "94-117_PC300696.jpg" → "Particle in harmonic oscillator (5)",
  "94-117_PC300697.jpg" → "Feb 2: first class",
  "94-117_PC300698.jpg" → "Gaussian integration",
  "94-117_PC300699.jpg" → "The Fourier transform",
  "94-117_PC300700.jpg" → "Feb 4 evaluation",
  "94-117_PC300701.jpg" → "Feb 4: Path integrals for the harmonic oscillator",
  "94-117_PC300703.jpg" → "Another evaluation",
  "94-117_PC300704.jpg" → "HW1: Fourier analysis",
  "94-117_PC300705.jpg" → "Feb 7: Fourier analysis", "94-117_PC300706.jpg" →
  "Feb 9: To Schroedinger's equation", "94-117_PC300707.jpg" →
  "22b of Apr 27, 1992; Least action, a particle in E&M fields",
  "94-117_PC300708.jpg" → "22b of Apr 29, 1992: Maxwell's equations",
  "94-117_PC300709.jpg" → "Feb 11: Differential forms", "94-117_PC300710.jpg" →
  "HW2: Maxwell, Lorentz transformations, free Schroedinger",
  "94-117_PC300711.jpg" → "115 of Nov 27, 1991: Euler-Lagrange",
  "94-117_PC300712.jpg" → "Feb 16: Maxwell",
  "94-117_PC300713.jpg" → "115 of Dec 2, 1991: Power lines",
  "94-117_PC300714.jpg" → "115 of Dec 4, 1991: The brachistochrone",
  "94-117_PC300715.jpg" → "The brachistochrone",
  "94-117_PC300716.jpg" → "Feb 18", "94-117_PC300717.jpg" → "Evaluation",
  "94-117_PC300718.jpg" → "115 of Dec 6, 1991: The isoperimetric inequality",
  "94-117_PC300719.jpg" → "Feb 23: Lagrange multipliers",
  "94-117_PC300720.jpg" → "Euler-Lagrange following Itzykson-Zuber",
  "94-117_PC300721.jpg" → "115 of Dec 9, 1991: The Hamiltonian formulation",
  "94-117_PC300722.jpg" → "Feb 24: Planning", "94-117_PC300723.jpg" →
  "115 of Dec 11, 1991: Poisson brackets, Noether's theorem",
  "94-117_PC300724.jpg" → "Feb 28: The Hamiltonian formulation, quantization",
  "94-117_PC300725.jpg" → "March 2: Symplectic geometry",
  "94-117_PC300726.jpg" → "March 4: Symplectic geometry",
  "94-117_PC300727.jpg" → "March 7", "94-117_PC300728.jpg" → "HW2 Solution",
  "94-117_PC300729.jpg" → "HW2 Solution (2)",
  "94-117_PC300730.jpg" → "115 of Dec 16, 1991: Noether's theorem",
  "94-117_PC300731.jpg" → "Noether's theorem",
  "94-117_PC300732.jpg" → "March 9: Poisoon brackets, Noether",
  "94-117_PC300733.jpg" → "March 11: Noether", "94-117_PC300734.jpg" →
  "Hamilton-Jacobi", "94-117_PC300735.jpg" → "Hamilton-Jacobi (2)",
  "94-117_PC300736.jpg" → "March 14 HW: Hamilton-Jacobi",
  "94-117_PC300738.jpg" → "March 14: Hamilton-Jacobi",
  "94-117_PC300739.jpg" → "March 14: Hamilton-Jacobi (2)",
  "94-117_PC300740.jpg" → "March 16: Legendre's transform",
  "94-117_PC300741.jpg" → "March 18: Second variations",
```

```
"94-117_PC300742.jpg" → "Suggested topics for projects",
"94-117_PC300743.jpg" → "March 21 HW",
"94-117_PC300744.jpg" → "March 21: Second variations",
"94-117_PC300745.jpg" → "March 23: Second variations",
"94-117_PC300746.jpg" → "First page of Mermin's paper",
"94-117_PC300756.jpg" → "Apr 4: Non-Commutative Probability",
"94-117_PC300757.jpg" → "Apr 4: Non-Commutative Probability (2)",
"94-117_PC300758.jpg" → "First page of my NCP paper",
"94-117_PC300763.jpg" → "The Heisenberg inequality (a page from my paper
    <a href=http://www.math.toronto.edu/~drorbn/papers/NCP/>Two
        Examples in Non-Commutative Probability</a>)",
"94-117_PC300764.jpg" → "Apr 6: Non-Commutative Probability",
"94-117_PC300765.jpg" → "April 8: Non-Commutative Probability",
"94-117_PC300766.jpg" → "Apr 11 HW: Non-Commutative Probability",
"94-117_PC300767.jpg" → "Apr 11: Non-Commutative Probability",
"94-117_PC300768.jpg" → "Planning",
"94-117_PC300769.jpg" → "The Stone - von-Neuman Uniqueness Theorem",
"94-117_PC300770.jpg" → "The Stone - von-Neuman Uniqueness Theorem (2)",
"94-117_PC300771.jpg" → "The Stone - von-Neuman Uniqueness Theorem (3)",
"94-117_PC300772.jpg" → "The Stone - von-Neuman Uniqueness Theorem (4)",
"94-117_PC300773.jpg" → "The Stone - von-Neuman Uniqueness Theorem (5)",
"94-117_PC300774.jpg" → "Apr 13: The Heisenberg inequality, SvN uniqueness",
"94-117_PC300775.jpg" → "Apr 18: SvN uniqueness",
"94-117_PC300776.jpg" → "Apr 20: SvN uniqueness, dynamics",
"94-117_PC300777.jpg" → "Apr 20: creation and annihilation",
"94-117_PC300778.jpg" → "Hermite", "94-117_PC300779.jpg" → "Hermite (2)",
"94-117_PC300780.jpg" → "Apr 22: The harmonic oscillator",
"94-117_PC300781.jpg" → "Creation and annihilation",
"94-117_PC300782.jpg" → "Apr 27: Rotations and spin",
"94-117_PC300783.jpg" → "??", "94-117_PC300784.jpg" →
    "Apr 29: Rotations and spin", "94-117_PC300786.jpg" → "Linking numbers",
"94-117_PC300787.jpg" → "May 6: Perturbation theory"}  
}
```