

CMSS - Default

- Text: Computer Modern Sans Serif (CMSS)
Math: CMSS Italic + CMR Math Symbols
- Preamble in this document:

```
\documentclass{beamer} % Default = "sans" option
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- Miss-match with CMR math symbols!

CMSS - Euler VM (1)

- Text: CMSS
Math: CMSS Italic + Euler VM Symbols
- Preamble in this document:

```
\documentclass{beamer} % No option
\usepackage{eulervm} % Euler VM fonts
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

CMSS - Euler VM (2)

- Text: CMSS
Math: Euler VM Math (with `[mathserif]` option)
- Preamble in this document:

```
\documentclass[mathserif]{beamer} % "mathserif" option for
\usepackage{eulervm}             % Euler VM as math serif font
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- Better than the previous one?

LCMSS - CM Bright

- Text: LCMSS (CM font family `slifonts` for `SlitEX`)
Math: CM Bright¹
- Preamble in this document:

```
\documentclass[professionalfont]{beamer} %
\usepackage[cmbrightmath,scaleupmath]{tpslifonts} % Part of TeXPower
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

¹You can get Type 1 version of CMBright, [HFBright](#) from CTAN.

Computer Modern Roman

- Text: Computer Modern Roman (CMR)
Math : Computer Modern Roman
- Preamble in this document:

```
\documentclass[serif]{beamer} % "serif" option for CMR
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- Who is going to use CMR in presentation? *Should be avoided!*

CM Bright - HF Bright

- Text: CM Bright (MetaFont)
Math: CM Bright Math (MetaFont)
- *HF Bright*, Type 1 version of CM Bright, is available from CTAN¹.
- Preamble in this document:

```
\documentclass{beamer} % No options
\usepackage{cmbright}
```

- Example:

$$\rho(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- Is 'cmbright' *too thin*?

¹<http://www.ctan.org/tex-archive/fonts/ps-type1/hfbright>

Concrete - Euler VM (1)

- Text: Concrete
Math: Concrete Italic + Euler VM Symbols
- Preamble in this document:

```
\documentclass[serif]{beamer} %
\usepackage[T1]{fontenc}      % Needed for Type1 Concrete
\usepackage{concrete}         % Loads Concrete + Euler VM
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

Concrete - Euler VM (2)

- Text: Concrete
Math: Euler VM Math (with “`professionalfont`” option)¹
- Preamble in this document:

```
\documentclass[serif,professionalfont]{beamer} %
\usepackage[T1]{fontenc} %
\usepackage{concrete} %
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

¹This option disables Beamer's font substitution mechanism.

Concrete - Concmath

- Text: Concrete
Math: Concrete Italic¹ + Concmath Symbols ([MetaFont](#)²)
- Preamble in this document:

```
\documentclass[serif]{beamer} %
\usepackage[T1]{fontenc}      % Needed for Type1 Concrete
\usepackage{concmath}        % Concrete + Concmath
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

¹If you add `professionalfont`, all math is set in `MetaFont`!

²Now Adobe Reader v6.x and later displays Type3 fonts very well.

Arial Narrow Math

- Text: Arial Narrow
Math: Arial Narrow Math (with CM math symbols)¹
- Preamble in this document:

```
\documentclass[professionalfont]{beamer}      %
\usepackage{mathmanx}                        % Arial Narrow Math
```

- Example:

$$p(R, \varphi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \varphi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- **Warning:** The original Arial Narrow TT font is converted to Type 42 (pfa), and thus you should use *dvips*!

¹See <http://users.chariot.net.au/~marknai/index.html>

Charter - MathDesign

- Text: Bitstream Charter
Math: MathDesign Charter¹
- Preamble in this document:

```
\documentclass[serif]{beamer}      %
\usepackage[T1]{fontenc}         %
\usepackage[charter]{mathdesign}  % MathDesign Charter
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

¹See <http://www.ctan.org/tex-archive/fonts/mathdesign/>

Garamond - MathDesign

- Text: URW Garamond No. 8¹
Math: MathDesign Garamond²
- Preamble in this document:

```
\documentclass[serif]{beamer}      %
\usepackage[T1]{fontenc}         %
\usepackage[garamond]{mathdesign} % URW Garamond No. 8 and
                                  % MathDesign Garamond
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- *Serif* fonts may not be good for presentation though Garamond is beautiful.

¹See <http://www.ctan.org/tex-archive/fonts/urw/garamond/>

²See <http://www.ctan.org/tex-archive/fonts/mathdesign/>

Helvetica - Euler VM (1)

- Text: Helvetica
Math: Helvetica Italic + Euler VM Symbols
- Preamble in this document:

```
\documentclass{beamer}           %
\usepackage[scaled]{helvet}     % With "scaled" option
\usepackage{eulervm}           %
```

- Example:

$$\rho(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

Helvetica - Euler VM (2)

- Text: Helvetica
Math: Euler VM Math
- Preamble in this document:

```
\documentclass[mathserif]{beamer} %
\usepackage[scaled]{helvet}      % With "scaled" option
\usepackage{eulervm}            %
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

Palatino - Euler VM (1)

- Text: Palatino
Math: Palatino Italic + Euler VM Symbols
- Preamble in this document:

```
\documentclass[serif]{beamer} %
\usepackage{pxfonts}          % Or palatino or mathpazo packages
\usepackage{eulervm}         %
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- **Hermann Zapf** designed both fonts! Should work well!

Palatino - Euler VM (2)

- Text: Palatino
Math: Euler VM Math (with professionalfont option)
- Preamble in this document:

```
\documentclass[serif,professionalfont]{beamer} % "professionalfont" option
\usepackage{pxfonts} %
\usepackage{eulervm} %
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

Palatino - Mathpazo

- Text: Palatino
Math: Mathpazo with CM math symbols (part of PSNFSS)
- Preamble in this document:

```
\documentclass[serif]{beamer} %  
\usepackage{mathpazo} %
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

Palatino - Pxfonts

- Text: Palatino
Math: Pxfonts¹
- Preamble in this document:

```
\documentclass[serif]{beamer} %  
\usepackage{pxfonts} %
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- Equations may be *too tight!* This is also true for txfonts.

¹Has a good monospaced teletype font, pxtt (=txtt).

Times - Mathematica

- Text: Times
Math: Mathematica VF Pack¹.
- Preamble in this document:

```
\documentclass[serif]{beamer} %  
\usepackage[cmtt]{wrisym}      % Mathematica v4.2 VF pack
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- *Serif* fonts may not be good for presentation.

¹CTAN's mma package is obsolete. See
<http://phong.informatik.uni-leipzig.de/~kuska/>

Times - Txfonts

- Text: Times
Math: Txfonts
- Preamble in this document:

```
\documentclass[serif]{beamer} %  
\usepackage{txfonts} % Txfonts
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- *Serif* fonts may not be good for presentation.

Times - Mathptmx

- Text: Times
Math: Mathptmx¹ (part of PSNFSS)
- Preamble in this document:

```
\documentclass[serif]{beamer} %
\usepackage[cmtt]{wrisym}      % Mathematica v4.2 VF pack
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

- *Serif* fonts may not be good for presentation.

¹Contains CM math symbols.

Utopia - Fourier

- Text: Adobe Utopia
Math: Fourier-GUT¹
- Preamble in this document:

```
\documentclass[serif]{beamer} %
\usepackage[T1]{fontenc}      %
\usepackage{fourier}          % Fourier-GUT
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp\left[iR/a\left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi\right)\right]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)}\left(\sqrt{k^2 a^2 - \gamma^2}\right)} d\gamma$$

¹See <http://www.ctan.org/tex-archive/fonts/fourier-GUT>

Utopia - MathDesign

- Text: Adobe Utopia
Math: MathDesign Utopia¹
- Preamble in this document:

```
\documentclass[serif]{beamer}           %
\usepackage[T1]{fontenc}               %
\usepackage[charter]{mathdesign}       % MathDesign Utopia
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[i R / a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \phi \right) \right]}{\left(k^2 a^2 - \gamma^2 \right)^{3/4} H_n^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

¹See <http://www.ctan.org/tex-archive/fonts/mathdesign/>

Bradley Hand - mathpazo

- Text: Bradley Hand¹
Math: Mathpazo
- Preamble in this document:

```
\documentclass[serif]{beamer} %
\usepackage{mathpazo} % Mathpazo symbols
\renewcommand{\rmdefault}{ibh} % Bradley Hand ITC
```

- Example:

$$p(R, \phi) \sim \int_{-\infty}^{\infty} \frac{\tilde{w}_n(\gamma) \exp [iR/a (\sqrt{k^2 a^2 - \gamma^2} \cos \phi)]}{(k^2 a^2 - \gamma^2)^{3/4} H_n^{(1)}(\sqrt{k^2 a^2 - \gamma^2})} d\gamma$$

- May be useful for writing informal documents!

¹Bradley Hand ITC (in TTF) comes with MS Windows.

Comic Sans MS

- Text: **Comic Sans / Courier Bold**¹
Math: *CM Math + Comic Sans Glyphs*
- Preamble in this document:

```
\documentclass[sans,mathserif]{beamer} %
\usepackage{comicsans} % Comic Sans
```

- Example:

$$p(R, \varphi) \sim \int_{-\infty}^{\infty} \frac{\tilde{W}_n(\gamma) \exp \left[iR/a \left(\sqrt{k^2 a^2 - \gamma^2} \cos \varphi \right) \right]}{(k^2 a^2 - \gamma^2)^{3/4} H'_n{}^{(1)} \left(\sqrt{k^2 a^2 - \gamma^2} \right)} d\gamma$$

¹See CTAN:macros/latex/contrib/comicsans/.