The beamer class Presentation style Text animation Columns & Blocks Including movies

Основи на ЫТЕХ

проф. дфн Хассан Шамати

ИФТТ-БАН chamati@issp.bas.bg

12 март 2014 г.

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12 март 2014 г.

Координатор: Виктория Атанасова

vatanassova@issp.bas.bg

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Presentations with LATEX

Presentations with

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Packages for presentations

- Seminar
- Beamer
- Powerdot
- Prosper
- ...

Packages for presentations

- Presentations with
- The beamer class
- Text animation
- Columns & Blocks
- Including movies

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- ...

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Packages for presentations

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- Prosper
- ...

```
\documentclass {...}
...
\begin {...}
...
\end {...}
... = slide, frame
```

The beamer class

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Beamer

```
\documentclass[options]{beamer}
Various commands
\begin{frame}[Frame options]
...
\end{frame}
```

Options

- t, c, b begin text from top, center, bottom
- mathserif ot mathsans
- \documentclass[xcolor={list of options}]{beamer};example table; pst when using pstricks
- \documentclass[hyperref={listof options}]{beamer}; example bookmarks=false

Frame options

- t Top aligned text
- plain While frame
- shrink useful to include lot of text

V III-----

Presentations with LATEX

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Title of the Presentation

```
\title [2nd National Congress on Physical Sciences]
Exact results in the theory of phase transitions
%\subtitle
%{Presentation Subtitle} % (optional)
\author[H. Chamati]{ Hassan Chamati}
\institute[ISSP--BAS]
{Institute of Solid State Physics.
Bulgarian Academy of Sciences
\\[.3 cm]
\includegraphics[height=1.2cm, width=1.2cm]{logo front.jpg}}
\date { September 29, 2013 }
\subject { Talks }
% This is only inserted into the PDF information catalog.
% Can be left out.
\keywords { thermodynamics }
```

```
\begin {frame}
\titlepage
...
More information
\end {frame}
```

V IIIomorra

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Table of contents

```
\begin{frame}
\frametitle{Outline}
\tableofcontents
\tableofcontents[pausesections]
\end{frame}
```

Hightlight the current section

```
\AtBeginSection[]
{
  \begin{frame}
    \frametitle{Outline}
    \tableofcontents[currentsection]
  \end{frame}
}
```

Sections & subsections

```
\section \{...\}
\subsection \{...\}
```

A simple presentation document

Presentations with LATEX

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```
\documentclass[t]{beamer}
\begin { document }
\title [...] {...}
\auhtor[...] { ... }
\date [...] {...}
\begin { frame }
        \titlepage
        More information
\end{frame}
\begin { frame }
        \frametitle { Outline }
        \tableofcontents
\end{frame}
\begin { frame }
        \frametitle { This is the first frame }
\end{frame}
\begin { frame }
        \frametitle { This is the second frame }
        \framesubtitle { More information }
\end{frame}
\end{document}
```

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I he beamer ci

Including movies

Presentation style

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Columns & Blocks

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У Шэмэти

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Themes

\documentclass[t]{beamer}
\usetheme{Madrid}
\begin{document}
...
\end{document}

More themes

Antibes	Darmstadt	Ilmenau	Marburg	Singapore
Bergen	Dresden	JuanLesPins	Montpellier	Szeged
Berkeley	Frankfurt	Luebeck	PaloAlto	Warsaw
Berlin	Goettingen	Madrid	Pittsburgh	boxes
Copenhagen	Hannover	Malmoe	Rochester	default

Color themes

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```
\documentclass[t]{beamer}
\usetheme{Madrid}
\colortheme{beaver}
...
\begin{document}
...
\end{document}
```

default	dolphin	rose
albatross	dove	seagull
beaver	fly	seahorse
beetle	lily	whale
crane	orchid	wolverine

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Examples

Mardid

On the Complexity of SNP Block Partitioning Under the Perfect Phylogeny Model

Jens Gramm¹ Tzvika Hartman² Till Nierhoff³ Roded Sharan⁴ Till Tantau⁵

¹ Universit\u00e4t T\u00fcbingen, Germany ² Bar-Ilan University, Ramat-Gan, Israel ³ International Computer Science Institute, Berkeley, USA ⁴ Tel-Aviv University, Israel ⁵ Universit\u00e4t zu L\u00fcbick, Germany

Workshop on Algorithms in Bioinformatics, 2006

Outline

- Introduction
 - The Model and the Problem
 - The Integrated Approach
- Bad News: Hardness Results
 - · Hardness of PP-Partitioning of Haplotype Matrices
 - · Hardness of PP-Partitioning of Genotype Matrices
- Good News: Tractability Results
 - · Perfect Path Phylogenies
 - Tractability of PPP-Partitioning of Genotype Matrices

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Examples

Mardid

H Chamati

Institute of Solid State Physics, Bulgarian Academy of sciences

May 18, 2013

Collaboration:

- N.I. Papanicolaou, G.A. Evangelakis (Greece) D. A. Papaconstantopoulos, Y. Mishin (USA)
- K. Gaminchev

Example: Leap-frog scheme

For small time steps $(\delta t \ll 1)$

 $\mathbf{v}_{i}\left(t + \frac{1}{2}\delta t\right) = \mathbf{v}_{i}\left(t - \frac{1}{2}\delta t\right) + \frac{\mathbf{F}_{i}(t)}{m}\delta t$

and likewise

 $\mathbf{r}_{i}(t + \delta t) = \mathbf{r}_{i}(t) + \mathbf{v}_{i}(t + \frac{1}{2}\delta t)\delta t$

Coordinates (r) & velocities (v)

Properties - structure, phonons, diffusion, ...

\usetheme { Madrid } \usecolortheme[named=orange]{ structure } V IIIomoru

Presentations with $\text{LAT}_{E}X$

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Examples

Berkeley



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Slide transitions

- Transblindshorizontal blinds pulled out horizontally
- Transblindsvertical blinds pulled out vertically
- Transboxin moving the slide from all corner to the center
- Transboxout from the center to the corners
- ...

Animations

```
\begin{frame}
\frametitle{Some background}
We start our discussion with some concepts.
\pause
The first concept we introduce ...
\end{frame}
```

The beamer class

Text animation

Columns & Blocks Including movies

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Presentations with

The beamer class

IATEX.

Presentation style

Text animation

Columns & Blocks Including movies

```
\begin{itemize}
  \item This one is always shown
  \item<1-> The first time (i.e. as soon as the slide loads)
  \item<2-> {\blue The second time}
  \item<1-> Also the first time
  \only<1-1> {\red This one is shown at the first time, but
  it will hide soon (on the next event after the
  slide loads).}
  \end{itemize}
```

Х. Шамати

Presentations with LATEX

The beamer class Presentation style

Text animation

Columns & Blocks Including movies

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Presentations with

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```

- This one is always shown
- The first time (i.e. as soon as the slide loads)
- The second time
- Also the first time.

The beamer class Presentation style

Text animation

Columns & Blocks Including movies

Text animation

\begin{itemize}[<+->]
\item The truths of arithmetic which are independent of PA
in some sense themselves 'contain essentially
\color{blue}{hidden higher-order}, or infinitary,
concepts '???
\item 'Truths in the language of arithmetic which \ldots
\item That suggests stronger version of Isaacson's thesis.
\end{itemize}

Х. Шамати

Presentations with LATEX

The beamer class Presentation style

Text animation

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Text animation

```
\begin{itemize}[<+->]
\item The truths of arithmetic which are independent of PA
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```

• The truths of arithmetic which are independent of PA in some sense themselves 'contain essentially hidden higher-order, or infinitary, concepts'???

Х. Шамати

Presentations with LATEX

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Text animation

Presentations with LATEX

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```

- The truths of arithmetic which are independent of PA in some sense themselves 'contain essentially hidden higher-order, or infinitary, concepts'???
- 'Truths in the language of arithmetic which ...
- That suggests stronger version of Isaacson's thesis.

The beamer class Presentation style

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Replacing text

```
\begin{itemize}
\item \ldots
\item \alt <2>{{\blue \TeX studio, LaTeX\ made comfortable}}{\TeX studio, LaTeX\ made comfortable};
\visible <2>{\http://texstudio.sourceforge.net}
\item \ldots
\end{itemize}
```

- ...
- T_EXstudio, LaTeX made comfortable;
- ..

У Шэмэти

Presentations with LATEX

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Replacing text

```
\begin{itemize}
\item \ldots
\item \alt <2>{{\blue \TeX studio, LaTeX\ made comfortable}}{\TeX studio, LaTeX\ made comfortable};
\visible <2>{\http://texstudio.sourceforge.net}
\item \ldots
\end{itemize}
```

- ...
- TeXstudio, LaTeX made comfortable; http://texstudio.sourceforge.net
- ..

Visible text on some slides

Presentations with LATEX

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```
\begin{itemize}
\item periodic:
$s(\mathbf{r},\alert{1})=s(\mathbf{r},\alert{L+1})$
\visible <2>{
\quad \alert {\Rightarrow} \quad
$\Delta = -\frac{2\zeta(3)}{5\pi}$}
\item \ldots
\end{itemize}
```

Visible text on some slides

Presentations with LATEX

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• periodic:
$$s(r, 1) = s(r, L + 1)$$

• ...

The beamer class

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Visible text on some slides

```
\begin{itemize}
\item periodic:
$s (\mathbf{r},\alert{1})=s (\mathbf{r},\alert{L+1})$
\visible <2>{
\qquad \alert {\Rightarrow} \qquad
$\Delta = -\frac {2\zeta(3)}{5\pi}$}
\item \ldots
\end{itemize}
```

• periodic:
$$s(r, 1) = s(r, L + 1)$$
 \Rightarrow $\Delta = -\frac{2\zeta(3)}{5\pi}$

• ..

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Columns

- ...
- ..
- ..

\end{columns}

```
\begin{columns}[t]
\column[T]{0.5\textwidth}
...
\column[T]{0.5\textwidth}
\begin{center}
\includegraphics[scale=0.4]
{frog.jpg}
Kermit the Frog
\end{center}
```



Kermit the Frog

V IIIowawy

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Blocks



\begin{block}{The Madrid theme}
\includegraphics{madrid1.png}
\end{block}

\begin{block}{Results}\rowcolors[]{1}\blue!20}{blue!20}{blue!10}\begin{tabular}{1|cccc}Class & A & B & C & D \\hline X & 1 & 2 & 3 & 4 \pause\\Y & 3 & 4 & 5 & 6 \pause\\\

Results

Class	Α	В	C	D
X	1	2	3	4

X Шамати

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Including movies

Blocks

The Madrid Theme

Mathematical modeling in materials science

H. Chamati

Institute of Solid State Physics, Bulgarian Academy of sciences

May 18, 2013

Collaboration:

- N.I. Papanicolaou, G.A. Evangelakis (Greece)
 D. A. Papaconstantopoulos, Y. Mishin (USA)
- K Gaminchev

\begin{block}{The Madrid theme}
\includegraphics{madrid1.png}
\end{block}

Results

Class	A	В	C	D
X	1	2	3	4
Y	3	4	5	6

Х. Шамати

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H. Chamari (ISSP-BAS) May IR, 2013 1 1 2

\begin{block}{The Madrid theme}
\includegraphics{madrid1.png}
\end{block}

\begin{block}{Results}
\rowcolors[]{1}
{blue!20}{blue!10}
\begin{tabular}{Ilcccc}
Class & A & B & C & D \\hline
X & 1 & 2 & 3 & 4 \pause\\
Y & 3 & 4 & 5 & 6 \pause\\

Class	A	В	C	D
X	1	2	3	4
Y	3	4	5	6
Z	5	6	7	8

X Шамати

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Основи на LATEX

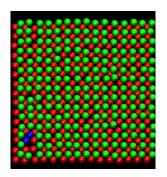
V IIIovorn

Presentations with LATEX

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Papanicolau and HC Comput. Mater. Sci. (2009)

This requires the multimedia.sty package.

```
\movie[poster, externalviewer]%
{\includegraphics[scale=0.25]{ndig.eps}}{ndig.mpg}
\centerline {\scriptsize Papanicolau and \alert{HC} ...}
```