NOTES ON RANDOM MATRICES

LEONID PETROV

(notes by (STUDENTS IN MATH 8380 COURSE))

CONTENTS

(ON THE TEX STYLE)

1. Please do not define and use any `\newcommand` commands!

2. Try to be consistent — use environments provided:

```
\begin{theorem}\label{thm:example}
        A theorem.
\end{theorem}
\begin{proof}[Idea of proof]
        And here is an equation:
        \begin{align*}
                a^2+b^2=c^2.
        \end{align*}
        This concludes the proof.
\end{proof}
```

The above code produces:

⟨thm:example⟩ **Theorem 0.1.** *A theorem.*

Idea of proof. And here is an equation:

$$a^2 + b^2 = c^2.$$

This concludes the proof. □

Use `align` or `multline` for displayed equations.

3. Full list of theorem environments defined:

```
\newtheorem{proposition}{Proposition}[section]
\newtheorem{lemma}[proposition]{Lemma}
\newtheorem{corollary}[proposition]{Corollary}
\newtheorem{theorem}[proposition]{Theorem}
\newtheorem{definition}[proposition]{Definition}
\newtheorem{remark}[proposition]{Remark}
\newtheorem{example}[proposition]{Example}
\newtheorem{exercise}[proposition]{Exercise}
```

4. Use `\note` command to insert notes: (THIS IS A NOTE).

5. Use understandable labels for theorems and equations, and reference them by using `\ref` or `\eqref`, see Theorem 0.1. Little hints will appear in the PDF file, this should help you.

6. You can email me your TEX files (in which case take my preamble and put your text into it), or alternatively you can use GitHub's pull requests mechanism.

1. Introduction

ntroduction⟩?

References

L. Petrov, Department of Mathematics, University of Virginia, 141 Cabell Drive, Kerchof Hall, P.O. Box 400137, Charlottesville, VA 22904, USA,
and Institute for Information Transmission Problems, Bolshoy Karetny per. 19, Moscow, 127994, Russia
E-mail address: lenia.petrov@gmail.com