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Stress Undershoot of …Simulations

[Title. for a manuscript in Japanese, the title must be presented both in Japanese and English]

\*1Yuichi Masubuchi, 2Giovanni Ianniruberto, and 2Giuseppe Marrucci   
[Authors name(s). Put \* at the corresponding author. Number for different organization (if any). If all the authors belong to the same organization, the numbering is not necessary. For a manuscript in Japanese, the authors’ name must be presented both in Japanese and English]

1*Department of Materials Physics, Nagoya University, Nagoya 4648603, Japan*

2*Dipartimento di Ingegneria Chimica, dei Materiali e della Produzione Industriale, Università degli Studi di Napoli “Federico II”, Piazzale Tecchio 80-80125 Napoli, Italy*

[Affiliations. For a manuscript in Japanese, the affiliations must be given both in Japanese and English]

\*To whom correspondence should be addressed  
xxx@rheology-u.ac.jp

[E-mail address of the corresponding author. ]

**ABSTRACT**

In this study, viscosity growth of ….

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**KEYWORDS:** nonlinear viscoelasticity, viscosity, molecular simulations

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1. **INTRODUCTION**

[Main text. Headings and subheadings for different sections of the papers should be used and identified. If each section needs to be numbered, a sequence such as 2., 2.1., 2.1.1., etc. should be used. For a Japanese manuscript, the headings would be緒言，実験，結果，考察，結言, etc.] The shear stress shows an overshoot when the applied shear rate is larger than the reciprocal longest relaxation time1–3). [The references should be numbered consecutively in the order of their appearance. The reference must be appropriately indicated at the sentence to which the specific publication is cited by its number. The identification number must be shown by the super-script with a right parenthesis as shown above. All publications cited in the text should be presented in a list of references following the text of the manuscript as shown below.]

1. **EXPERIMENTAL**

…

1. **RESULTS**

… Fig. 1 shows the linear viscoelasticity for the 133k and 185k polystyrene melts…



**Figure 1** Linear viscoelasticity of polystyrene melts with the molecular weights of 133k and 185k at the reference temperature of 160. Symbols are experimental data7) and lines are simulation results. [All measurements and data should be given in SI units. The captions must be written in English even for Japanese manuscripts.]

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1. **DISCUSSION**

… In non-dimensional units, the shear stress can be written by the following formula

In Eq 1, is the entanglement density (and its equilibrium value), the end-to-end vector of a network strand, and the corresponding number of Kuhn segments… [Authors are cautioned to type all mathematical and chemical symbols, equations, and formulas. Vectors and tensors should be set in boldface. Symbols for scalar quantities should be set in italic. The equation should be numbered consecutively with Arabic numerals in parentheses on the right-hand side of the page. ]

1. **CONCLUSIONS**

…

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**ACKNOWLEDGEMENTS**

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