



SDI Review Form 1.6

PART 1:

Journal Name:	Physical Review & Research International
Manuscript Number:	MS: 2012 PRRI 2642
Title of the Manuscript:	Direct Correlation Function of Hard Molecular Fluid

General guideline for Peer Review process is available in this link:

(<http://www.sciencedomain.org/page.php?id=sdi-general-editorial-policy#Peer-Review-Guideline>)

- This form has total 9 parts. Kindly note that you should use all the parts of this review form.



SDI Review Form 1.6

PART 2: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<u>Compulsory</u> REVISION comments		
<u>Minor</u> REVISION comments		
<u>Optional/General</u> comments	<p>This paper reports on the solution of the PY equation for hard spherocylinders, using a spherical harmonic expansion. The method is old, and well plagued with limitations concerning the poor convergence of the spherical harmonic series for elongations of relevance in realistic problems. The authors use well known approaches to calculate the minimum distance of approach, and surprisingly the combine different approaches in order to minimize the error, as if the results were stemming from different experimental measures ... there is absolutely no new physics or methodology in this paper, and therefore my opinion this paper should be rejected.</p>	<p>Dear Dr</p> <p>Thank you so much for advice. This method has been used in many papers that published recently. Hard spherocylinder is a good model for a real fluid when the isotropic-nematic transition takes place. And therefore it is very valuable to study the structural and thermodynamic properties of such fluids.</p>