From: Colin Nave
To: CCP4BB@JISCMAIL.AC.UK
Subject: Re: [ccp4bb] Fwd: [ccp4bb] FW: [ccp4bb] Resolution and distanceaccuracies
Date: Thursday, January 06, 2011 6:38:46 PM

Dear Gerard
Yes I had seen this paper before but forgot about it (was probably in my subconscious). Wladek also mentioned this to me and I was in the process of acknowledging this when your email arrived.

The paper by Wladek and co-authors covers much (and more) of what has been said on the bulletin board including acknowledging the benefits of the procedure described in Schroeder et. al. It refers to the super-resolution in light microscopy and the paper by Stelzer, E. H. (2002). Nature (London), 417, 806-807. Stelzer suggests that super-resolution in some light microscopy methods is also a misleading term as it might not meet the criteria for distinguishing features separated by a certain distance. However, I am not sure this is correct as the excitation/de-excitation mechanism in STED (for example) leads to intrinsically sharp profiles for the remaining fluorescence.

Until persuaded otherwise my present view is

- The procedure in Schroeder et. al. is a useful development
- The use of the term super-resolution is misleading in this context
- The use of the term super-resolution for some excitation based light microscopy methods is probably justified

And of course your reference to Monsieur Jourdain lead me to finding some very amusing Moliere quotes.

Best Regards

Colin

> -----Original Message-----
> From: Gerard Bricogne [mailto:gb10@globalphasing.com]
> Sent: 06 January 2011 22:48
> To: Nave, Colin (DLSLtd,RAL,DIA)
> Cc: CCP4BB@JISCMAIL.AC.UK
> Subject: Re: [ccp4bb] Fwd: [ccp4bb] FW: [ccp4bb] Resolution and
> distanceaccuracies
>
> Dear Colin,
>
> Wladek Minor has just drawn my attention to the following recent
> paper:
>
> Acta Cryst. (2010). D66, 1041.1042
>
> (that I must admit to having failed to notice) also expressing
> reservations
> about some uses of "creative language".
>
>
> With best wishes,
>
> Gerard.