

## Re: so called new approach to design doublet APOs. ;>)

**Source:** <http://sci.tech-archive.net/Archive/sci.astro.amateur/2004-11/3126.html>

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**From:** Tom Davis (*tdavis11\_at\_carolina.rr.com*)

**Date:** 11/20/04

Date: Sat, 20 Nov 2004 09:16:24 GMT

"ValeryD" <aries@mercury.kherson.ua> wrote in message  
news:5c4a4ee7.0411200016.17aa60dd@posting.google.com...

> *Dear Mr. Back,*

>

> *Sure, your self-confidence has no limits. And as one, well known  
> in optical design and manufacturing, person said, someday your head  
> will explode due to your unlimited self-confidence.*

>

> *I should mention specially for your instance, that ARIES 7" F/8*

> *Fluorite*

> *objective you saw at one StarParty (AstroFest?) which was with  
> cracked fluorite element has the design, which is essentially the same,  
> as you called "truly a new level of performance in the fluorite  
> and ED doublet market". Also, I should to note, that these ARIES  
> objectives were designed and made about 7 years ago. The largest one  
> was 12" F/9. And right now we making tubes for a serie of 6 such 7"*

> *F/8*

> *Fluorite doublets.*

> *It will be useful to note also, that these doublets has color*

> *correction,*

> *that in 430nm-656nm range, is same good as LZOS made TMB 6" F/8 Super*

> *SD TRIplet. And, of course, such objectives has better contrast, that*

> *these*

> *triplets (include 175mm ones) because they have two surfaces less,*

> *shorter*

> *lightpass in the glasses. These doublets also have significantly*

> *shorter*

> *colldown time. Objectives have lesser mass and a telescope has better*

> *balance.*

>

> *Of course, I am not a first person, who know this approach to APO*

> *doublets*

> *design and manufacturing. So, this approach to design can't be called*

> *as*

> *"truly new level". Please*