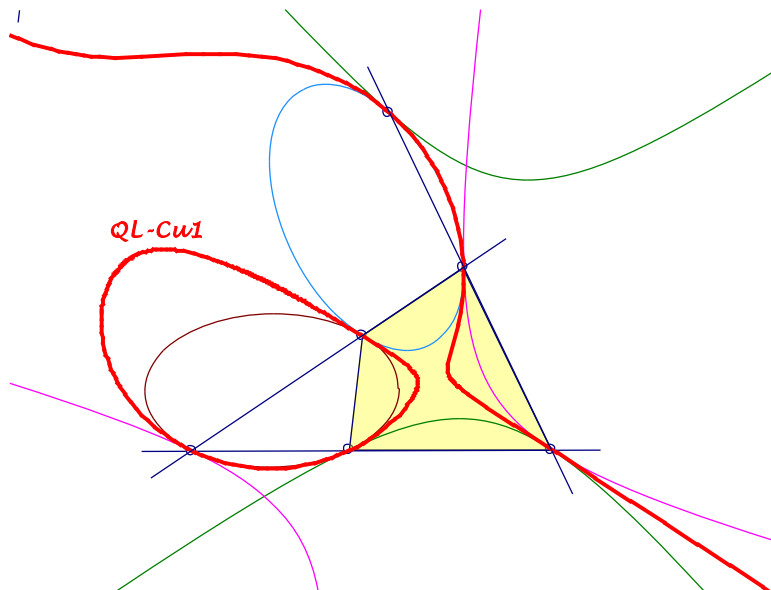


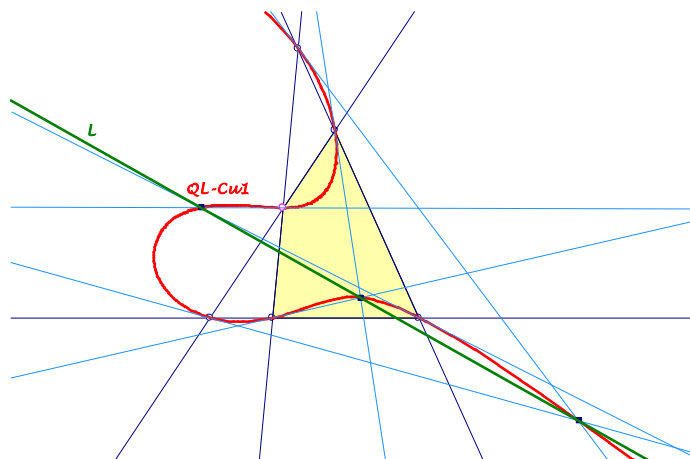
Background for these notes is:  
Chris van Tienhoven: Encyclopedia of Quadri-Figures  
<http://www.chrisvantienhoven.nl/>

### Four Conics Tangent to QL-Cu1

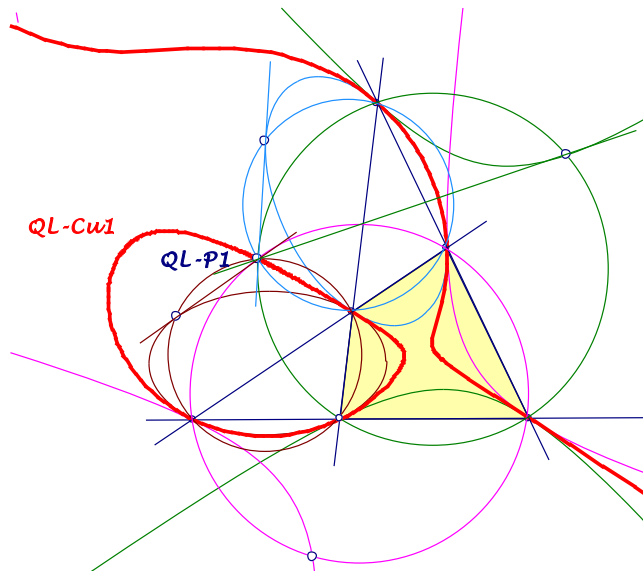
*For a quadrilateral there are four circumconics of the triangle components, tangent to the cubic QL-Cu1 [1].*



- The *QL-Cu1*-tangents in opposite points of a quadrilateral intersect collinear on *QL-Cu1*.
- These collinear intersections are the *CSC*-images of the 3<sup>rd</sup> intersections of the diagonals and *QL-Cu1*.
- The corresponding line *L* is the *CSC*-image of the *QL-DT*-medial circle *QL-Ci2*.



- There are four circumconics  $Co_i$  of the triangle components, tangent to the cubic  $QL-Cu1$ .
- These circumconics  $Co_i$  are the isogonal conjugates of the lines  $L_i$  wrt the remaining triangle  $L_jL_kL_l$ .
- The  $Co_i$ -tangents in the 4<sup>th</sup> intersections of  $Co_i$  and the circumcircle of  $L_jL_kL_l$  intersect in  $QL-P1$ .



## References

- [1] <http://eckartschmidt.de/Zirkul..pdf> , 9 (f).

Eckart Schmidt  
<http://eckartschmidt.de>  
[eckart\\_schmidt@t-online.de](mailto:eckart_schmidt@t-online.de)