

Building instructions for the NONIUS KappaCCD.

- Cut along these lines.
- - - - - Score and fold backwards
- Score and fold forwards.
- Guideline for assembly.

Big letters indicate the parts.

Small letters indicate where to glue them.

Use a sharp hobby knife (X-Acto) to cut the pieces, use white or transparent glue to put the pieces together.

After cutting the black parts you can make the edges black to get an even better result.

More about card modelling tools and techniques can be found at:

<http://er4www.eng.ohio-state.edu/~browns/card-faq/>

Cut and assemble the base (A).

Cut out part B, including the circles 'D3' and 'X'.

Cut out part C and make it into a circle by glueing the ends together.

Cut out parts C1, C2 and C3. Glue C3 on C1, then glue C2 on C3 through the hole in part B (see diagram). Make sure it can rotate.

Now assemble parts B and C by first glueing C to the part with the rotating element, then the part that has to be mounted on A.

Cut and assemble the DX-trackbase (D) and glue it on part B.

Cut and assemble the DX-tracker (E) and glue it on D.

Cut and assemble the detector (F and G) and glue it on E.

Cut and assemble the tubetower (H) and glue to base A.

Cut and assemble part I and glue it in the center of part H.

Cut and assemble parts J and K, starting with the two ends, ending with the middle.

Cut and assemble the tubesupport (L).

Cut and assemble the lights M, N and O and glue them on L.

Glue parts J and K to the sides of part L and onto part I.

Cut and assemble the Kappasupport (P), ending with the round shapes.

Cut out the Kappa-arm (Q), including the circle 'R3'.

Cut out parts R1, R2 and R3. Glue R3 on R1, then glue R2 on R3 through the hole in part Q (see diagram). Make sure it can move. After it is completely dry you can assemble the Kappa-arm.

Cut and assemble part S (see diagram), after it has dried you can remove the red parts.

Glue part S to the Kappa-arm, the rotating part of the Kappa-arm to the Kappasupport and the Kappasupport to the rotating part in the base. Be very careful with the glue to make rotation of the parts possible.

If these parts are thoroughly dried, you can paste it to the base (A).

Cut and assemble the beamstop (T), the collimator (U, see diagram) and the microscope (V). Glue them to part L.

Finally glue the part with the detector to the base (A).

Your NONIUS KappaCCD is now finished.

