1. Sample File

(Read the file itself for more information)

1.1 Sample diagrams. Here are three sample commutative diagrams:

$$
\begin{tikzcd}
H_q \arrow[rr, "\omega"] \arrow[dr, "a", "\simeq"'] \arrow[dd, two heads, "p_q"'] & & \pi_{q+1} \arrow[rr, two heads, "h_{q+1}"] \arrow[dr, "b", "\simeq"'] \arrow[dd, two heads, "\eta"] & & H_{q+1} \arrow[dr, "c", "\simeq"'] \arrow[dd, two heads, "p_{q+1}"] & \\
& H'_q \arrow[rr, "\omega'"] \arrow[dd, two heads, "p'_q"] & & \pi'_{q+1} \arrow[rr, "h'_{q+1}"] \arrow[dd, two heads, "\eta'"] & & H'_{q+1} \arrow[dd, two heads, "p'_{q+1}"] \\
\mathcal{H}_q \arrow[rr, tail, "\Omega"] \arrow[dr, "\alpha", "\simeq"'] & & \Pi_{q+1} \arrow[rr, two heads, "H"] \arrow[dr, "\beta", "\simeq"'] & & \mathcal{H}_{q+1} \arrow[dr, "\gamma", "\simeq"'] & \\
& \mathcal{H}'_q \arrow[rr, tail, "\Omega'"] & & \Pi'_{q+1} \arrow[rr, two heads, "H'"] & & \mathcal{H}'_{q+1}
\end{tikzcd}
\tag{1}
$$

and

$$
\begin{tikzcd}
D \arrow[rr, "i"] & & D \arrow[dl, shift left, "j"] \\
& E \arrow[ul, "k"] \arrow[ur, shift left, "j'"] &
\end{tikzcd}
\tag{2}
$$

and

$$
\begin{tikzcd}
B \otimes_A \operatorname{Hom}_A(B,A) \arrow[rr, "\phi"] \arrow[dr, "\psi"] \arrow[ddr, "\sigma"'] & & \operatorname{Hom}_A(B,B)_k \arrow[dl, "\mu"'] \arrow[ddl, "\operatorname{tr}_{B/A}"] \\
& \operatorname{Hom}_A(B,A) \arrow[d, "\theta"] & \\
& A &
\end{tikzcd}
\tag{3}
$$

1.2 Other Features. For other features, see the documentation.

1.3 Documentation. The LAMS-TEX Manual, "LAMS-TEX, The Synthesis" (300 pages, spiral bound) is available from

> Texplorators
> 3701 W. Alabama, Suite 450-273
> Houston, TX 77027

The current price is \$30, which includes shipping (special 4th class rate). You can also ask your book store to order it for you (the current edition of the manual does not have an ISBN number).

The LAMS-TEX's Wizard's Manual, presumably of very limited interest, explains all the code in LAMS-TEX in complete, thorough, and nauseating detail. More precisely, Volume I, which is all that has been written, covers all the details of the first part of the LAMS-TEX Manual, but not the commutative diagrams or tables. It is 600 pages long and is printed on demand, by laser printer (on both sides of 300 pages). It is normally printed directly on 3-hole punched paper, unless you request otherwise.

The price, including shipping, is \$40.00.

In preparation: The LAMS-TEX Style File Designer's Manual. This will be a sort of condensation of the Wizard's Manual, focusing on those things that are required for modifying the default LAMS-TEX style. It will be printed, spiral bound, and probably sold at some bargain price, like \$10.00.