



FORMESH SMALLERENS  
(Program 159)

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This program is identical to Formesh (Program 26) in all respects except that a restriction on  $N$  has been lifted. Recall that with the Formesh program a necessary lower limit is  $N > \pi$  in order to avoid an embarrassing division hang-up. Another restriction, which may raise this lower limit, is placed upon  $N$  (when  $N \neq 0$ ) if  $n_{RK}$  is unfortunately chosen; since the inequality

$$\frac{2\pi}{N} \frac{2^M}{n_{RK}} < 1,$$

where  $M$  is defined by

$$\frac{n_{RK}}{2} \leq 2^M < n_{RK},$$

must be satisfied.

With the FORMESH SMALLERENS program  $N$  may assume the following range:

$$0 \leq N < 2048\pi$$

and it is always assured that the inequality

$$\frac{\pi}{4N} \frac{2^M}{n_{RK}} < 1$$

holds, where  $M$  is again defined as above.

Data for the program should be prepared on a standard FORMESH agenda sheet. Before entering any items on the agenda, one should

first of all permanently obliterate the title line and in its place write very vividly the words FORMESH SMALLERENS AGENDUM (PROGRAM 159).

When using this program the mesh size must satisfy

$$3ab \leq 7412$$

Failure to follow this procedure will result in mesh cannibalism.