



The alternating sum counts each element of  $U$  a certain number of times; an element in  $A'B'C'$  (the shaded region) is counted only in  $S_0 (= |U|)$  and not at all in any of the other terms, so each such element contributes exactly one to the alternating sum, which is what we want it to do.

Now, look at an element in exactly one of the sets  $A, B, C$ . For example, suppose the element is in  $AB'C'$ . It gets counted once in  $S_0$  and then subtracted once in  $S_1$ , and is not counted again. The net contribution of this element to the alternating sum is zero.

**E21** How many times does an element in exactly two of the sets (for example, an element in  $ABC'$ ) get counted in each of the terms  $S_0, S_1, S_2$ , and  $S_3$ ? Therefore, what is its net contribution to the alternating sum?

**E22** What is the net contribution of an element in  $ABC$  to the alternating sum?

The foregoing analysis shows that each element of  $A'B'C'$  contributes exactly 1 to the alternating sum  $S_0 - S_1 + S_2 - S_3$ , whereas all other elements contribute 0. It follows that the alternating sum is equal to the number of elements in  $A'B'C'$ , which establishes the inclusion/exclusion formula for three sets. In general, the same reasoning applies for any number of sets. Elements in  $A'_1A'_2 \dots A'_n$  are counted once in the alternating sum  $S_0 - S_1 + \dots \pm S_n$ , whereas all other elements make no contribution to this sum. This last claim depends on the fact that  $1 - 2 + 1 = 0$ ,  $1 - 3 + 3 - 1 = 0$ ,  $1 - 4 + 6 - 4 + 1 = 0$  and, in general,

$$\sum_{k=0}^m (-1)^k \binom{m}{k} = 0 \quad \text{for } m \geq 1$$

(Recall why this is true; if necessary, look back at problem B14.)

**E23** Let  $n = 5$ , and show that an element in  $A_1A_2A_3A_4A'_5$  contributes 0 to the alternating sum  $S_0 - S_1 + S_2 - S_3 + S_4 - S_5$ .

# Combinatorics A Problem Oriented Approach

**Arturo Cuomo**



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